UNIVERSITY OF TORONTO SCARBOROUGH

OFFICE OF THE CAMPUS COUNCIL

FOR INFORMATION **PUBLIC** **OPEN SESSION**

TO: UTSC Academic Affairs Committee

SPONSOR: Prof. William Gough, Vice-Principal Academic and Dean
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PRESENTER: Prof. Mark Schmuckler, Vice-Dean Undergraduate
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DATE: Wednesday, January 25, 2017

AGENDA ITEM: 6

ITEM IDENTIFICATION:

Minor Modifications, Undergraduate

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] (January 25, 2017)**

PREVIOUS ACTION TAKEN:

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

HIGHLIGHTS:

The Office of the Vice-Principal Academic and Dean reports, for information, all curricular changes that do not impact program and course learning outcomes or mode of delivery. These include, but are not limited to:

- Adding, deleting or moving an optional course in a program;
- Adding, deleting or moving a required course in a program, as long the change does not alter the nature of the program;

- All course deletions; and
- Changes to course level and/or designator, requisites, enrolment limits and breadth requirement categories.

Undergraduate Minor Curriculum Modifications for Information, Report 1 includes changes submitted by:

- The Department of Anthropology
  - Course deletions
  - Course changes
  - Minor program modifications
- The Centre for Critical Development Studies
  - Minor program modifications
- The Department of English
  - Course changes
  - Minor program modifications
- The Centre for French and Linguistics
  - Course deletions
  - Course changes
  - Minor program modifications
- The Department of Human Geography
  - Minor program modifications
- The Department of Management
  - Minor program modifications
- The Department of Psychology
  - Minor program modifications

Undergraduate Minor Curriculum Modifications for Information, Report 2 (From Curriculum Manager) includes changes submitted by:

- The Department of Biological Sciences
  - Minor program modifications
  - Course changes
- The Department of Human Geography
  - Minor program modifications
  - Course deletions
  - Course changes
- The Department of Management
  - Course deletions
  - Course changes
- The Department of Philosophy
  - Course changes
- The Department of Political Science
  - Minor program modifications
  - Course changes
- The Department of Psychology
  - Minor program modifications
  - Course deletions

- Course changes

FINANCIAL IMPLICATIONS:

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

RECOMMENDATION:

This item is presented for information.

DOCUMENTATION PROVIDED:

1. 2017-18 Curriculum Cycle: Undergraduate Minor Curriculum Modifications for Information Report 1, dated January 4, 2017.
2. 2017-18 Curriculum Cycle: Undergraduate Minor Curriculum Modifications for Information Report 2 (From Curriculum Manager), dated January 5, 2017.

UNIVERSITY OF TORONTO SCARBOROUGH

2017-18 Curriculum Cycle
Undergraduate Minor Curriculum Modifications for Information Report 1

January 4, 2017

Department of Anthropology

Note regarding consultation:
All changes have been approved by the Departmental Curriculum Committee, and reviewed by the Dean's Office. Where changes may have had an impact on outside academic units, appropriate consultation has taken place.

Course Deletions

ANTC23H3 Primate Sexuality

Rationale:
This course was created and taught by a faculty member that is no longer at UTSC and there is no other faculty member that would like to teach it. It will be replaced by a new course ANTC27H3.

ANTC60H3 Fieldwork in Social and Cultural Anthropology

Rationale:
ANTC60 is being replaced by a new course – ANTC70 – and is now redundant.

Course Changes

Calendar Copy Showing Changes:
~~**ANTB21H3**~~ **ANTC59H3 Anthropology of Language and Media~~: An Introduction~~**
Anthropology studies language and media in ways that show the impact of cultural context. This course introduces this approach and also considers the role of language and media with respect to intersecting themes: ritual, religion, gender, race/ethnicity, power, nationalism, and globalization. Class assignments deal with lecturers, readings, and students' examples.
Same as ~~MDSB02~~ MDSC21H3
Prerequisite: ~~ANTA02H3 or MDSA01H3~~ [ANTB19H3 and ANTB20H3] or [MDSA01H3 and MDSB05H3 and ACMB01H3]
Exclusion: (ANTB21H3), (MDSB02H3), MDSC21H3
Breadth Requirement: Arts, Literature & Language

Rationale:
Course level change from B to C. The content of this course is more suited to the C-level course. A new B-level course – ANTB35H3 – has been proposed to introduce this content at a foundational level.

Calendar Copy Showing Changes:

ANTC52H3 Global Politics of Language

Language and ways of speaking are foundational to political cultures. This course covers the politics of language in the age of globalization, including multiculturalism and immigration, citizenship, race and ethnicity, post-colonialism, and indigeneity. Ethnographic examples are drawn from a variety of contexts, including Canadian official bilingualism and First Nations.

Prerequisite: ANTB19H3 and ANTB20H3

~~Recommended Preparation: ANTB21H3~~

Enrolment Limits: 60

Breadth Requirement: Arts, Literature & Language

Rationale:

ANTB21H3 has been changed to a C-level course and no longer is appropriate recommended preparation for ANTC52H3.

Calendar Copy Showing Changes:

ANTD20H3 Culture and Community

A field-based research seminar exploring the cultural dimensions of community and sense of place. Partnering with community-based organizations in Scarborough and the GTA, students will investigate topical issues in the immediate urban environment from an anthropological perspective. Yearly foci may include food, heritage, diaspora, and family.

Prerequisite: ANTB19H3 and ANTB20H3 and [at least 1.0 credit at the C-level in Socio-Cultural Anthropology courses]

Recommended Preparation: (ANTC60H3) or ANTC70H3

Enrolment Limits: 15

Breadth Requirement: Social & Behavioural Sciences

Rationale:

ANTC70H3 is a proposed new methods course in Anthropology that is appropriate recommended preparation for ANTD20H3.

Calendar Copy Showing Changes:

ANTD22H3 Theory and Methodology in Primatology

This seminar course will examine contemporary theory and questions in primatology and carefully examine the types of data that researchers collect to answer their research questions. ~~current socio-ecological theory in primatology and explore different methods for studying and sampling primate behaviour.~~

Science credit

Prerequisite: ANTB22H3 ~~and ANTC23H3~~

Enrolment Limits: 25

Rationale:

The course description has been revised to reflect the update course content. There are no changes to the course learning outcomes. ANTC23 has been removed from the prerequisites because it is being retired effective 2017-18.

Program Changes

Specialist in Socio-Cultural Anthropology (BA)
Major in Socio-Cultural Anthropology (BA)

Overview of Changes:
1. ANTC70H3 replaces ANTC60H3 as a methods course
2. ANTD05H3 has been updated to show that it is being changed to a 1.0 credit, 2-term course

Rationale:
1. ANTC70H3 replaces ANTC60H3 because it better serves as a general introduction to methods in socio-cultural anthropology, and helps fulfill this aspect of the program for both specialists and majors. It also provides a more appropriate foundation for students who will go on to the advanced methods course (ANTD05H3)
2. ANTD05H3 is being changed from a 0.5 credit, 1-term course, to a 1.0 credit, 2-term course

Calendar Copy Showing Changes:
SPECIALIST PROGRAM IN SOCIO-CULTURAL ANTHROPOLOGY (ARTS)

Program Requirements
The Program requires completion of 12.0 full credits, as indicated below.

1. ANTA01H3 Introduction to Anthropology: Becoming Human
   ANTA02H3 Introduction to Anthropology: Society, Culture and Language
2. ANTB19H3 Ethnography and the Comparative Study of Human Societies
3. ANTB20H3 Culture, Politics and Globalization
4. 10.0 credits at the B-level *or* above, of which at least 5.0 credits must be at the C- *or* D-level, including at least 1.0 credit at the D-level. Students must ensure that as part of Requirement 4, they complete:
    1. At least 1.0 credit in area studies courses: ANTB05H3, ANTB16H3, ANTB18H3, ANTB65H3, ANTC89H3, ANTD07H3
    2. At least 0.5 credit in Ethnographic methods: ANTC70H3 ~~ANTC60H3~~ ~~or ANTD05H3~~
    3. At least 1.0 credit from among ANTD05~~H~~HY3, ANTD06H3, ANTD15H3, and ANTD24H3
    4. Courses in Anthropological Linguistics may be counted towards fulfilling Requirement 4.

Note: ANTB19H3 and ANTB20H3 are prerequisites for C- and D-level courses in the Socio-Cultural Anthropology program.

MAJOR PROGRAM IN SOCIO-CULTURAL ANTHROPOLOGY (ARTS)

Program Requirements
The Program requires completion of 8.0 full credits in Anthropology including:

1. ANTA01H3 Introduction to Anthropology: Becoming Human
   ANTA02H3 Introduction to Anthropology: Society, Culture and Language
2. ANTB19H3 Ethnography and the Comparative Study of Human Societies
3. ANTB20H3 Culture, Politics and Globalization
4. 6.0 credits at the B-level or above, of which at least 3.0 credits must be at the C- *or* D-level. Students must ensure that as part of Requirement 4, they complete:

1. At least 1 credit in area studies courses ANTB05H3, ANTB16H3, ANTB18H3, ANTB65H3, ANTC89H3 ANTD07H3
2. ANTC70H3 ~~ANTC60H3~~
3. At least 0.5 credit from among ANTD05~~H~~Y3, ANTD06H3, ANTD15H3, and ANTD24H3
4. Courses in Anthropological Linguistics may be counted towards fulfilling Requirement 4.

Note: ANTB19H3 and ANTB20H3 are prerequisites for C- and D-level courses in the Socio-Cultural Anthropology program.

Centre for Critical Development Studies

Note regarding consultation:
All changes have been approved by the Departmental Curriculum Committee, and reviewed by the Dean's Office. Where changes may have had an impact on outside academic units, appropriate consultation has taken place.

Program Changes

Specialist in International Development Studies (BA)
Specialist (Co-operative) in International Development Studies (BA)

Overview of Changes:
1. Add ANTB18H3, AFSC55H3 and HISD51H3/AFSD51H3 to the Culture and Society cluster of component 5
2. Add POLC69H3, and correct typo in course title for GGRC48H3 in the Economics of Development cluster of component 5
3. Update title for GGRB21H3, delete GGRC22H3, and correct typo in course title for GGRC49H3 in the Environment and Land Use cluster of component 5
4. Add ANTC24H3 to the Gender, Health and Development cluster of component 5
5. Add ANTC32H3 to the Politics and Policy cluster of component 5

Rationale:
1. ANTB18H3 has been added as an optional course to provide students with the opportunity to specialize on systems of inequality in Latin America, which compliments POLC99H3(Latin America: The Politics of the Dispossessed) listed within the Politics and Policy cluster in addressing topics such as transformed cultural and political domination. AFSC55H3 is a doubled numbered course with HISC55H3, which has already been listed as an optional course for the Culture and Society cluster of the program. Adding AFSC55H3 would be beneficial for those students in our program that are also completing a Minor Program in African Studies. HISD51H3/AFSD51H3 has been added as an optional course to add to the breadth of courses that specialize in development in Africa. More specifically, it will allow students to gain a better understanding of topics such as liberation movements, the impact of the Cold War and apartheid.
2. POLC69H3 has been added as an option in the Economics of Development cluster to introduce students to the various schools of thought in Political Economy, including classical, rational choice, institutionalism and constructivist theories.
3. GGRC22H3 has been deleted from the Environment and Land Use cluster because it is being retired

4. ANTC24H3 has been added as an option to the Gender, Health and Development cluster to allow students to gain a better understanding of development and mental health. The focus of mental health is not specifically covered within the current courses that are listed within the Gender, Health and Development cluster. This course provides the opportunity for students to consider the roles of culture in the experience, expression, definition and treatment of mental health illness
5. ANTC32H3 has been added as an option to the Politics and Policy cluster to allow students to build off of their quantitative methods skills required within Requirement 3 of the program by assessing different approaches to power and politics with respect to such topics such as civil society and democracy.
6. the remaining changes are simple housekeeping revisions to update/correct course titles

Calendar Copy Showing Changes:
SPECIALIST PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (ARTS)

Program Requirements
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.

1. Introduction to International Development Studies (2.0 full credits as follows)
   IDSA01H3 Introduction to International Development Studies
   [MGEA01H3 Introduction to Microeconomics *or* MGEA02H3 Introduction to Microeconomics: A Mathematical Approach]
   [MGEA05H3 Introduction to Macroeconomics *or* MGEA06H3 Introduction to Macroeconomics: A Mathematical Approach]
   EESA01H3 Introduction to Environmental Science

2. Core courses in International Development (3.0 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 Quantitative Methods in Economics I
   GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning
   GGRB30H3 Fundamentals of GIS I
   HLTB15H3 Introduction to Health Research Methodology
   STAB23H3 Introduction to Statistics for the Social Sciences
   0.5 FCE in Qualitative methods from the following:
   ANTB19H3 Ethnography and the Comparative Study of Human Societies
   GGRC31H3 Qualitative Geographical Methods: Place and Ethnography
   HLTC04H3 Critical Qualitative Health Research Methods
   POLC78H3 Political Analysis I

4. Research in International Development Requirement (0.5 credit):
   IDSD02H3 Advanced Seminar in Critical Development Studies: Theory and Policy

5. Specialized Courses: Approaches to International Development (6.0 full credits)
   A minimum of 2.0 full credits must be chosen from two different clusters below for a total of 4.0 full credits. The other 2.0 full credits may be selected from any of the courses listed below, and IDSA02H3/AFSA03H3, IDSC07H3, IDSC10H3, IDSD10H3, IDSD14H3 and IDSD15H3 may also be counted towards the completion of this requirement.

   Media and Development
   ANTC53H3 Anthropology of Media and Publics
   GASC40H3/MDSC40H3 Chinese Media and Politics
   GASC41H3/MDSC41H3 Media and Popular Culture in East Asia
   IDSB10H3 Knowledge and Communication for Development
   IDSC08H3 Media and Development
   MDSB05H3/GASB05H3 Media and Globalization
   MDSB61H3 Mapping New Media
   SOCC44H3 Media and Society
   VPHB50H3 Africa Through the Photographic Lens

   Culture and Society
   ANTB05H3/AFSB05H3 Culture and Society in Africa
   ANTB18H3 Development, Inequality and Social Change in Latin America
   ANTB20H3 Culture, Politics and Globalization
   ANTB64H3 The Anthropology of Food
   ANTC10H3 Anthropological Perspectives on Development
   ANTC34H3 The Anthropology of Transnationalism
   ANTC66H3 Anthropology of Tourism
   GGRD14H3 Social Justice and the City
   HISB51H3/AFSB51H3 Twentieth Century Africa
   HISB57H3/GASB57H3 Sub-Continental Histories: South Asia in the World
   HISC29H3 Global Commodities: Nature, Culture, History
   HISC55H3/AFSC55H3 War and Society in Modern Africa
   HISD51H3/AFSD51H3 Southern Africa: Colonial Rule, Apartheid and Liberation
   IDSD06H3 Feminist and Postcolonial Perspectives in Development Studies
   SOCC25H3 Ethnicity, Race and Migration
   SOCC29H3 Special Topics in Sociology of Family
   SOCC34H3 Migrations & Transnationalisms
   SOCC58H3 Global Transformations: Politics, Economy & Society

   Economics of Development
   ANTC19H3 Producing People and Things: Economics and Social Life
   MGEB32H3 Economic Aspects of Public Policy
   MGEB60H3 Comparative Economic Systems
   MGEC21H3 Classics in the History of Economic Thought
   MGEC61H3 International Economics: Finance
   MGEC62H3 International Economics: Trade Theory
   MGEC81H3 Economic Development
   MGEC82H3 Development Policy

MGED63H3 Financial Crises: Causes, Consequences and Policy Implications
IDSC12H3 Economics of Small Enterprise and Micro-Credit
IDSC14H3 The Political Economy of Food
GGRC48H3 Geographaies of Urban Poverty
POLC69H3 Political Economy: International and Comparative Perspectives
POLC98H3 International Political Economy of Finance

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

Gender, Health and Development
ANTC14H3 Feminism and Anthropology
ANTC15H3 Genders and Sexualities
ANTC24H3 Culture, Mental Illness, and Psychiatry
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
ANTC32H3 Political Anthropology
IDSC11H3 Issues in Global and International Health
IDSC17H3 Development, Citizen Action and Social Change in the Global South
IDSC18H3 New Paradigms in Development: The Role of Emerging Powers
IDSD19H3 The Role of Researcher-Practitioner Engagement in Development
POLB80H3 Introduction to International Relations I
POLB81H3 Introduction to International Relations II
POLC09H3 International Security: Conflict, Crisis and War
POLC16H3 Chinese Politics
POLC37H3 Global Justice
POLC80H3 International Relations of Africa
POLC87H3 International Cooperation and Institutions
POLC88H3 The New International Agenda
POLC90H3 Development Studies: Political and Historical Perspectives

POLC91H3 Latin America: Dictatorship and Democracy
POLC96H3 State Formation and Authoritarianism in the Middle East
POLC97H3 Protest Politics in the Middle East
POLC99H3 Latin America: Politics of the Dispossessed
POLD09H3 International Relations of Ethnic Conflict
POLD87H3 Rational Choice and International Cooperation
POLD90H3 Public Policy and Human Development in the Global South
POLD92H3 Survival and Demise of Dictatorships
POLD94H3 Selected Topics on Developing Areas

SPECIALIST (CO-OPERATIVE) PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (ARTS)

Co-op Contact: askcoop@utsc.utoronto.ca
The Co-operative Program in International Development Studies (B.A.) at University of Toronto Scarborough, is a five year undergraduate Program which aims to provide students with a critical understanding of international development issues through exposure to a variety of academic disciplines and to another culture. The Program combines interdisciplinary academic study in the social and environmental sciences and humanities with a practical work experience in a developing country. IDS students graduate with an Honours B.A. with a Specialist certification in International Development Studies.

Program Admission

Enrolment in the Program is limited. Interviews are normally held from January until May for students who pass the initial screening. Admissions are granted on the basis of the applicants' academic performance, background in relevant subjects, language skills, extra-curricular involvement, experience or interest in international development studies and work. For information on fees and status in the Program, please see section 6B.5 (Co-operative Programs) in this *Calendar*.

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 section 6B.5 (Co-operative Programs) in this *Calendar*.

Current U of T Scarborough students: Application procedures can be found at the Registrar's Office website at: www.utsc.utoronto.ca/subjectpost. The minimum qualifications for entry are 4.0 credits and a cumulative GPA of at least 2.5. An interview is required.

Work Placement
This program requires the completion of 15.0 FCEs and one work term of eight to twelve months in duration. The work term will normally begin between April and September of the third year. The IDS work term is an integral part of the co-op curriculum and is designed to provide students with practical hands on experience in a developing country. The majority of work terms are with Canadian NGOs, research institutes or private sector consulting firms. The location of placements will vary according to each student's disciplinary and regional preferences and abilities, the availability of positions, and the practicability and safety of the area. Placement employers are asked to cover the living allowance of the student. Those students who choose to carry out their placement with no funding will be asked to finance the living allowance themselves.

Students are required to submit progress reports every 2 months and begin work on a major research project. To be eligible for placement, students must have completed 14.5 credits, including IDSC01H3, IDSC04H3 and a further 6.0 credits from Requirements 1 through 4 of the Specialist in International Developnment Studies (BA) program. It is highly recommended that students complete courses towards fulfilling their specialized courses from Requirement 6 of the Specialist in International Development Studies (BA) program, as well the required 1.0 credit in a second language, when completing the remainder of the 14.5 credits that are required prior to placement. For information about status in the co-op program, fees, and regulations, please see section 6B.5 (Co-operative Programs) in this *Calendar*.

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.

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

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

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

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

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

- 1.0 full credit in a second language

- IDSC01H3 Research Design for Development Fieldwork (must be taken prior to co-op placement)
- IDSD01Y3 Post-placement Seminar and Thesis

Department of English

Note regarding consultation:
All changes have been approved by the Departmental Curriculum Committee, and reviewed by the Dean's Office. Where changes may have had an impact on outside academic units, appropriate consultation has taken place.

Course Changes

Calendar Copy Showing Changes:
ENGB17H3 Contemporary Literature from the Caribbean
A study of fiction, drama, and poetry from the West Indies. The course will examine the relation of standard English to the spoken language; the problem of narrating a history of slavery and colonialism; the issues of race, gender, and nation; and the task of making West Indian literary forms.
Exclusion: ENG264H, ENG270Y, (NEW223Y), (ENG253Y)
Breadth Requirement: Arts, Literature & Language

Rationale:
NEW223Y has been split it into two half credit versions. Brackets have been added to signal the course is no longer offered. The associated faculty member for ENGB17H3 does not feel it necessary to add the two new half courses as exclusions.

Calendar Copy Showing Changes:
ENGC35H3 Imagined Communities in Early Modern England, 1500-1700
A study of the real and imagined multiculturalism of early modern English life. How did English encounters and exchanges with people, products, languages, and material culture from around the globe redefine ideas of national, ethnic, and racial community? In exploring this question, we will consider drama~~, poetry, travel journals, autobiography, letters, cookbooks, costume books, and maps.~~ and poetry together with travel writing, language manuals for learning foreign tongues, costume books, and maps.
Pre-1900 course
Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Recommended Preparation: [ENGB32H3 or ENGB33H3] & [ENGC10H3 or (ENGC32H3) or ENGC33H3]
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

Rationale:
The description has been updated to better reflect topics covered.

Calendar Copy Showing Changes:
ENG~~C72~~B22H3 Contemporary Literature from Africa

A study of fiction, drama, and poetry from English-speaking Africa. The course will examine the relation of English-language writing to indigenous languages, to orality, and to audience, as well as the issues of creating art in a world of suffering and of de-colonizing the narrative of history.
~~Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)] or AFSA01H3~~
Exclusion: (ENGC72H3), ENG278Y
~~Enrolment Limits: 45~~
Breadth Requirement: Arts, Literature & Language

Rationale:
The course level is being changed from the C-level to the B-level to make it more open to students who are interested in Africa but who are not English program students.

Calendar Copy Showing Changes:
ENG~~C76~~B74H3 The Body in Literature and Film
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.
~~Corequisite: Two full credits at the B-level or above from ENG, WST, VPA, VPH, and/or VPS.~~
Exclusion: (VPAC47H3), (VPHC47H3), (ENGC76H3)
~~Enrolment Limits: 45~~
Breadth Requirement: Arts, Literature & Language

Rationale:
The course level is being changed from the C-level to the B-level because students in ENGA10 and A11 who are not completing a Major or Specialist in English, seek a "follow-up" course that does not impinge on their commitment to their chosen programs. It also serves as a second "gateway" course to the growing Minor in Literature and Film.

Calendar Copy Showing Changes:
ENGD08H3 Topics in African Literature
This advanced seminar will provide intensive study of a selected topic in African literature written in English; for example, a single national literature, one or more authors, or a literary movement.
Prerequisite: 2 C-level courses in English or [AFSA01H3 & [ENGB22H3 or (ENGC72H3)]]
Enrolment Limits: 22
Breadth Requirement: Arts, Literature & Language

Rationale:
A course change proposal has been submitted to change ENGC72H3 to ENGB22H3. This change is now reflected in the pre-requisites for ENGD08H3.

Calendar Copy Showing Changes:
ENGD22H3 Special Topics in Creative Writing II
This multi-genre creative writing course, designed around a specific theme or topic, will encourage interdisciplinary practice, experiential adventuring, and rigorous theoretical reflection through readings, exercises, field trips, projects, etc. Admission by portfolio. The portfolio should contain 10-20 pages of your best writing (any genre). 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).

Prerequisite: ~~ENGC08H3~~ [0.5 credit at the B-level in Creative Writing] and [0.5 credit at the C-level in Creative Writing]

Rationale:
When offered, enrolment has been on the lower side for this particular course. By removing a specific pre-requisite and making it more general, we hope to increase enrolment in subsequent terms. Additionally, the form and content between ENGC08H3 and ENGD22H3 are different, so listing ENGC08 as a prerequisite is not necessary as they are both special topics courses.

Program Changes

Minor in Creative Writing (Arts)

Overview of Changes:
1. Add ENGC89H3 and ENGD95H3 as optional courses to component 2 of the program requirements

Rationale:
These courses are appropriate options for completing component 2 of the program requirements.

Calendar Copy Showing Changes:
MINOR PROGRAM IN CREATIVE WRITING (ARTS)
Program Supervisor: D. Tysdal (416-287-7161)
Email: dtysdal@utsc.utoronto.ca

Program Requirements:
Students must complete 4.0 credits as follows. A maximum of 1.0 credit in creativing writing courses may be taken at another campus.

1. 1.5 credits:
ENGB03H3 Critical Thinking about Narrative
ENGB04H3 Critical Thinking about Poetry
[ENGB60H3 Creative Writing: Poetry I or ENGB61H3 Creative Writing: Fiction I]

2. 2.5 credits to be selected from:
ENGB60H3 Creative Writing: Poetry I (if not already counted as a required course)
ENGB61H3 Creative Writing: Fiction I (if not already counted as a required course)
ENGB63H3 Creative Non-Fiction I
ENGC04H3 Creative Writing: Screenwriting
ENGC05H3 Creative Writing: Poetry and New Media
ENGC06H3 Creative Writing: Writing for Comics
ENGC08H3 Special Topics in Creative Writing I
ENGC86H3 Creative Writing: Poetry II
ENGC87H3 Creative Writing: Fiction II
ENGC88H3 Creative Non-Fiction II
ENGC89H3 Creative Writing and Performance
ENGD22H3 Special Topics in Creative Writing II
ENGD26Y3 Independent Studies in Creative Writing: Poetry
ENGD27Y3 Independent Studies in Creative Writing: Prose
ENGD28Y3 Independent Studies in Creative Writing: Special Topics

ENGD95H3 Creative Writing as a Profession

Minor in English Literature (Arts)

Overview of Changes:
1. Add "or D-level" to component 4 of the program requirements; students must now complete 1.0 credit at the C- or D-level

Rationale:
Students should be able to satisfy this requirement using either C- or D-level courses. We have been making exceptions in DEX as it is not recognizing D-level courses for this requirement. This change will just formalize everything and make it official.

Calendar Copy Showing Changes:
MINOR PROGRAM IN ENGLISH LITERATURE (ARTS)

Program Supervisor: ~~A. Maurice (416-287-7180).~~ K. Larson (416-287-7169)
Email: english-program-supervisor@utsc.utoronto.ca

Program Requirements
4.0 credits in English are required. 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. 1.0 credits at the C- or D-level
5. 1.5 additional credits in English.

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.

Minor in Literature and Film Studies (Arts)

Overview of Changes:
1. In component 1 of the program requirements – students must now complete either ENGB75H3 or ENGB76H3, and not both; reduce the total number of credits for this component from 1.5 to 1.0.
2. Increase the total credits to complete component 4 from 1.0 to 1.5

Rationale:
1. ENGB75H3 and ENGB76H3 are offered on a rotational basis with ENGB76H3 sometimes not being offered for a number of academic terms due to other teaching obligations by associated faculty. By allowing students to choose between ENGB75H3 or ENGB76H3, it ensures that students are able to stream through the program with ease.
2. It is appropriate to add the displaced half credit from requirement 1 to requirement 4.

Calendar Copy Showing Changes
MINOR PROGRAM IN LITERATURE AND FILM STUDIES (ARTS)

Program Supervisor: A. Maurice (416-287-7180).

Email: english-program-supervisor@utsc.utoronto.ca

Program Requirements
4.0 full credits in English are required

1. 1.50 credit as follows:
ENGB70H3 Introduction to Cinema
[ENGB75H3 Cinema and Modernity I or ENGB76H3 Cinema and Modernity II]

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]

3. 1.0 credits at the C-or D-level, from the following:
ENGC56H3 Literature and Media: From Page to Screen
ENGC76H3 The Body in Literature and Film
ENGC78H3 Dystopian Visions in Fiction and Film
ENGC82H3 Cinema Studies: Themes and Theories
ENGC83H3 Studies in World Cinema
ENGD52H3 Cinema: The Auteur Theory
ENGD62H3 Topics in Postcolonial Literature and Film
ENGD91H3 Avant-Garde Cinema
ENGD93H3 Theoretical Approaches to Cinema
ENGD94H3 Stranger than Fiction: The Documentary Film
ENGD96H3 Iranian Cinema

4. 1.05 additional credits in English

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.

Centre for French and Linguistics

Note regarding consultation:
All changes have been approved by the Departmental Curriculum Committee, and reviewed by the Dean's Office. Where changes may have had an impact on outside academic units, appropriate consultation has taken place.

Course Deletions

PLID55H3 Disorders of Speech and Language

Rationale
Historically, PLID55H3 was taught by doctoral students from the Department of Speech Language Pathology. With the development of PLIC54H3 and PLID56H3 (courses focusing on specific disorders

of speech and language) through the provostial Interdivisional Teaching (UCDF) initiative, PLID55H3 went into temporary hibernation.

PLID55H3 covered a wide range of speech and language disorders. PLIC54H3, PLID56H3, and PLID74H3 (new) will each focus on a specific area of speech and language disorders- PLIC54H3 (speech disorders in children and adults), PLID56H3 (specific focus on the deaf and hearing impaired), and now PLID74H3 (speech disorders among the elderly). With faculty members tied to each of these courses there is no need for a generalized course in this area anymore that isn't associated with a particular faculty member.

This change will not have any major implications on the PLI program, as three courses have been introduced since the last time that it was offered that cover topics taught in that course in more detail.

Course Changes

Calendar Copy Showing Changes:
FREB44H3 Introduction to Linguistics: French Phonetics and Phonology
An examination of the sound system of modern French. The course will acquaint student with acoustic phonetics and the basic concept and features of the French phonetic system. Phonological interpretation of phonetic data (from speech samples) and prosodic features such as stress and intonation will be examined.
Prerequisite: [FREA01H3 and FREA02H3] or equivalent.
Exclusion: (FRE272Y), FRE272H, FRE274H
Breadth Requirement: Arts, Literature & Language

FREB45H3 Introduction to Linguistics: French Morphology and Syntax
An examination of the internal structure of words and sentences in French.
Covered are topics including word formation, grammatical categories, syntactic structure of simple and complex clauses, and grammatical relations of subject, predicate and complement.
This course complements (FREB43H3) and FREB44H3.
Prerequisite: [FREA01H3 and FREA02H3]
Exclusion: (FRE272Y), FRE272H, FRE274H
Breadth Requirement: Arts, Literature & Language

Rationale:
There is sufficient overlap between FREB44/B45 and FRE274H to warrant adding it as an exclusion. It should be noted that St. George will not be adding FREB44/B45 as exclusions to FRE274 - students that receive credit for both FREB44H and FREB45H at UTSC, will still be able to take both FRE272H and FRE274H at the St. George campus.

Calendar Copy Showing Changes:
FRED02H3 Supervised Reading
These courses offer the student an opportunity to carry out independent study of an advanced and intensive kind, under the direction of a faculty member. Student and instructor work out in consultation the course's objectives, content, bibliography, and methods of approach. The material studied should bear a clear relation to the student's previous work, and should differ significantly in content and/or concentration from topics offered in regular courses. In applying to a faculty supervisor, students should be prepared to present a brief written statement of the topic they wish to explore. Final approval of the project rests with the French Discipline. Students are advised that they must obtain consent from

the supervising instructor before registering for these courses. Interested students should contact the Discipline Representative or Program Supervisor for guidance.
Prerequisite: ~~One B-level course in the group FREB01H3-FREB84H3, except FREB17H3 and FREB18H3.~~ 1.0 credit at the C-level in FRE courses

FRED03H3 Supervised Reading
These courses offer the student an opportunity to carry out independent study of an advanced and intensive kind, under the direction of a faculty member. Student and instructor work out in consultation the course's objectives, content, bibliography, and methods of approach. The material studied should bear a clear relation to the student's previous work, and should differ significantly in content and/or concentration from topics offered in regular courses. In applying to a faculty supervisor, students should be prepared to present a brief written statement of the topic they wish to explore. Final approval of the project rests with the French Discipline. Students are advised that they must obtain consent from the supervising instructor before registering for these courses. Interested students should contact the Discipline Representative or Program Supervisor for guidance.
Prerequisite: ~~One B-level course in the group FREB01H3-FREB84H3, except FREB17H3 and FREB18H3.~~ 1.0 credit at the C-level in FRE courses

FRED04H3 Supervised Reading
These courses offer the student an opportunity to carry out independent study of an advanced and intensive kind, under the direction of a faculty member. Student and instructor work out in consultation the course's objectives, content, bibliography, and methods of approach. The material studied should bear a clear relation to the student's previous work, and should differ significantly in content and/or concentration from topics offered in regular courses. In applying to a faculty supervisor, students should be prepared to present a brief written statement of the topic they wish to explore. Final approval of the project rests with the French Discipline. Students are advised that they must obtain consent from the supervising instructor before registering for these courses. Interested students should contact the Discipline Representative or Program Supervisor for guidance.
Prerequisite: ~~One B-level course in the group FREB01H3-FREB84H3, except FREB17H3 and FREB18H3.~~ 1.0 credit at the C-level in FRE courses

FRED05H3 Supervised Reading
These courses offer the student an opportunity to carry out independent study of an advanced and intensive kind, under the direction of a faculty member. Student and instructor work out in consultation the course's objectives, content, bibliography, and methods of approach. The material studied should bear a clear relation to the student's previous work, and should differ significantly in content and/or concentration from topics offered in regular courses. In applying to a faculty supervisor, students should be prepared to present a brief written statement of the topic they wish to explore. Final approval of the project rests with the French Discipline. Students are advised that they must obtain consent from the supervising instructor before registering for these courses. Interested students should contact the Discipline Representative or Program Supervisor for guidance.
Prerequisite: ~~One B-level course in the group FREB01H3-FREB84H3, except FREB17H3 and FREB18H3.~~ 1.0 credit at the C-level in FRE courses

FRED07H3 Supervised Reading
These courses offer the student an opportunity to carry out independent study of an advanced and intensive kind, under the direction of a faculty member. Student and instructor work out in consultation the course's objectives, content, bibliography, and methods of approach. The material studied should bear a clear relation to the student's previous work, and should differ significantly in content and/or

concentration from topics offered in regular courses. In applying to a faculty supervisor, students should be prepared to present a brief written statement of the topic they wish to explore. Final approval of the project rests with the French Discipline. Students are advised that they must obtain consent from the supervising instructor before registering for these courses. Interested students should contact the Discipline Representative or Program Supervisor for guidance.
Prerequisite: ~~One B-level course in the group FREB01H3-FREB84H3, except FREB17H3 and FREB18H3.~~ 1.0 credit at the C-level in FRE courses

Rationale:
The Supervised Reading courses are geared towards high achieving students who are considering graduate school in French or a similar area of study. All too often, we are approached by less-strong students looking for an 'easy' D-level course to take, unaware of what is involved or required of them when signing up for this course. Revising the pre-requisites should make it more clear to students what is expected of them.

Calendar Copy Showing Changes:
LGGC64H3 Reading Chinese: China from the Inside Out
Intended for students who are able to read everyday publications, e.g., newspapers in either complex-form characters or simple-form characters. Pinyin, complex-simplified character conversion and vice versa, and fluency are emphasized through reading and discussing advanced materials in a variety of topics from and outside of Greater China, presentations, and essay writing.
Prerequisite: Online placement test and survey.
Exclusion: LGGB66H3. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course.
Enrolment Limits: 30
Breadth Requirement: Arts, Literature & Language
NOTE: The sequence of courses offered in the Heritage and Non Heritage streams of Mandarin Chinese may not be adequate preparation for this course; ~~those students may take this course~~; those students may take this course with the instructor's permission. LGGC64H3 may be taken before or after LGGC65H3. This course is bilingual. Priority will be given to students enrolled in the Minor in English to Chinese Translation.

LGGC65H3 Reading Chinese: Global Perspectives
Designed for students who are able to read everyday publications, e.g., newspapers in either complex-form characters or simple-form characters. Pinyin, complex-simplified character conversion and vice versa, and fluency are emphasized through reading and discussing advanced materials in a variety of topics from global perspectives, presentations, and essay writing.
This course may be taken before or after LGGC64H3.
Prerequisite: Online placement test and survey.
Exclusion: (LGGB67H3); The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course.
Enrolment Limits: 30
Breadth Requirement: History, Philosophy & Cultural Studies
NOTE: The sequence of courses offered in the Heritage and Non Heritage streams of Mandarin Chinese may not be adequate preparation for this course. LGGC65H3 may be taken before or after LGGC64H3. This course is bilingual. Priority will be given to students enrolled in the Minor in English to Chinese Translation.

Rationale:
It is important for students to understand and know ahead of time that the course will be taught in both Mandarin and English, and students should be comfortable in each language.

Calendar Copy Showing Changes:
LINA01H3 Introduction to Linguistics
An introduction to the various methods and theories of analyzing speech sounds, words, sentences and meanings, both in particular languages and language in general.
Exclusion: (LIN100Y), LIN101H, LIN102H
Breadth Requirement: Arts, Literature & Language

LINA02H3 Applications of Linguistics
Application of the concepts and methods acquired in LINA01H3 to the study of, and research into, language history and language change; the acquisition of languages; language disorders; the psychology of language; language and in the brain; and the sociology of language.
Prerequisite: LINA01H3
Exclusion: (LIN100Y), LIN101H, LIN102H
Breadth Requirement: Arts, Literature & Language

Rationale:
The full course equivalent LIN100Y at UTSG and UTM has been split into two parts- LIN101 and LIN102. The changes to the exclusion reflect this change.

Calendar Copy Showing Changes:
LINB10H3 Morphology
Core issues in morphological theory, including properties of the lexicon and combinatorial principles, governing word formation as they apply to French and English words.
Prerequisite: LINA01H3
Corequisite: LINB04H3 and LINB06H3
Exclusion: LIN231H, LIN333H, (LINB05H3), (LINC05H3) FRE387H, (FREC45H3)
Breadth Requirement: Arts, Literature & Language

LINB20H3 Sociolinguistics
The study of the relationship between language and society. Topics include: how language reflects and constructs aspects of social identity such as age, gender, socioeconomic class and ethnicity; ways in which social context affects speakers' use of language; and social factors which cause the spread or death of languages.
Prerequisite: LINA02H3
Exclusion: (LINB21H3), (LINB22H3), LIN251H, LIN256H, FREC48H3
Breadth Requirement: Social & Behavioural Sciences

LINC12H3 Semantics: The Study of Meaning
An introduction to the role of meaning in the structure, function, and use of language. Approaches to the notion of meaning as applied to English and French data will be examined.
Same as FREC12H3.
Prerequisite: LINA01H3 or [FREB44H3 and FREB45H3]
Exclusion: FREC12H3, FRE386H, LIN241H, LIN247H, LIN341H, (FREC49H3), (FRED49H3)
Breadth Requirement: History, Philosophy & Cultural Studies

LINC47H3 Pidgin and Creole Languages
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.
Prerequisite: [LINA01H3 and LINA02H3] or [FREB44H3 and FREB45H3]
Exclusion: FREC47H3, LIN366H
Breadth Requirement: Arts, Literature & Language

Rationale:
Exclusions have been updated to include courses taught on the St. George/UTM campus that include overlapping material.

Calendar Copy Showing Changes:
LINB29H3 Quantitative Methods in Linguistics
An introduction to experimental design and statistical analysis for linguists. Topics include both univariate and multivariate approaches to data analysis for acoustic phonetics, speech perception, psycholinguistics, language acquisition, language disorders, and sociolinguistics.
Prerequisite: LINA02H3
Exclusion: LIN305H, (PLIC65H3), PSYB07H3, STAB23H3
Recommended Preparation: LINB19H3
Breadth Requirement: Quantitative Reasoning

Rationale:
Material taught in newly listed excluded courses are similar enough in content to courses taught here at UTSC.

Additionally, LINB19H3 is a new course being proposed by a new faculty member that will be suitable recommended preparation for this course.

Calendar Copy Showing Changes:
LIND01H3 Independent Study in Linguistics
Independent study and research in an area of interest to the student. Students must obtain consent from a supervising instructor before registering. Interested students should contact the ~~Program Supervisor~~ Undergraduate Assistant for Linguistics for further information.
Prerequisite: At least one full credit at the C-level in LIN courses and permission of the supervising instructor.

LIND02H3 Independent Study in Linguistics
Independent study and research in an area of interest to the student. Students must obtain consent from a supervising instructor before registering. Interested students should contact the ~~Program Supervisor~~ Undergraduate Assistant for Linguistics for further information.
Prerequisite: At least one full credit at the C-level in LIN courses and permission of the supervising instructor.

LIND03H3 Independent Study in Linguistics
Independent study and research in an area of interest to the student. Students must obtain consent from a supervising instructor before registering. Interested students should contact the ~~Program Supervisor~~ Undergraduate Assistant for Linguistics for further information.
Prerequisite: At least one full credit at the C-level in LIN courses and permission of the supervising instructor.

LIND07Y3 Independent Study in Linguistics
A reading and research independent study course on a topic of interest to the student. Students must obtain consent from a supervising instructor before registering. Interested students should contact the ~~Associate Director~~ Undergraduate Assistant for Linguistics for further information.
Prerequisite: At least 1.0 credit at the C-level in LIN courses and permission of the ~~Linguistics Associate Director~~ supervising instructor
Exclusion: LIN495Y

PLID01H3 Independent Study in Psycholinguistics
Independent study and research in an area of interest to the student. Students must obtain consent from a supervising instructor before registering. Interested students should contact the ~~Program Supervisor~~ Undergraduate Assistant for ~~p~~Psycholinguistics for further information.
Prerequisite: At least one full credit at the C-level in PLI courses and permission of the supervising instructor.

PLID02H3 Independent Study in Psycholinguistics
Independent study and research in an area of interest to the student. Students must obtain consent from a supervising instructor before registering. Interested students should contact the ~~Program Supervisor~~ Undergraduate Assistant for ~~p~~Psycholinguistics for further information.
Prerequisite: At least one full credit at the C-level in PLI courses and permission of the supervising instructor.

PLID03H3 Independent Study in Psycholinguistics
Independent study and research in an area of interest to the student. Students must obtain consent from a supervising instructor before registering. Interested students should contact the ~~Program Supervisor~~ Undergraduate Assistant for ~~p~~Psycholinguistics for further information.
Prerequisite: At least one full credit at the C-level in PLI courses and permission of the supervising instructor.

PLID07Y3 Independent Study in Psycholinguistics
A reading and research independent study course on a topic of interest to the student. Students must obtain consent from a supervising instructor before registering. Interested students should contact the ~~Associate Director~~ Undergraduate Assistant for Psycholinguistics for further information.
Prerequisite: At least 1.0 credit at the C-level in PLI courses and permission of the ~~Linguistics Associate Director~~ supervising instructor
Exclusion: LIN495Y

Rationale:
These changes are editorial only; they are being made to keep the course descriptions and prerequisites current and accurate.

Calendar Copy Showing Changes:
LIND09H3 Phonetic Analysis
Practical application of phonetic theory with special emphasis on instrumental and experimental techniques.
Prerequisite: LINB09H3 and LINB29H3
Exclusion: LIN423H, (LINC09H3)
Breadth Requirement: Natural Sciences

PLID50H3 Speech Perception
An examination of the acoustics and perception of human speech. We will explore how humans cope with the variation found in the auditory signal, how infants acquire their native language sound categories, the mechanisms underlying speech perception and how the brain encodes and represents speech sounds. An emphasis will be placed on hands-on experience with experimental data analysis.
Prerequisite: LINB29H3 and PLIC55H3
Exclusion: (PLIC15H3)
Breadth Requirement: Social & Behavioural Sciences

Rationale:
Projects and assignments in this course will rely on the students' ability to reason about experimental design in linguistics, descriptive and inferential statistics and use of the R software that is introduced in LINB29H3.

Calendar Copy Showing Changes:
PLIC55H3 Psycholinguistics
Experimental evidence for theories of how humans produce and understand language, and of how language is represented in the mind. Topics include speech perception, word retrieval, use of grammar in comprehension and production, discourse comprehension, and the role of memory systems in language processing.
Prerequisite: LINB06H3 or LINB09H3
Co-requisite: LINB29H3
Exclusion: JLP374H
Breadth Requirement: Natural Sciences

Rationale:
The course projects in PLIC55 rely on the students' ability to reason about experimental design in linguistics, descriptive and inferential statistics and use of the R software that is introduced in LINB29H3.

Calendar Copy Showing Changes:
PLID56H3 Special Topics in Language Disorders in Children
An in-depth investigation of a particular type of language or communication disorder, for example, impairment due to hearing loss, Down syndrome, or autism. Topics will include: linguistic and non-linguistic differences between children with the disorder and typically-developing children; diagnostic tools and treatments for the disorder; and its genetics and neurobiology.
Prerequisite: PLIC24H3 or (PLID55H3)
~~Exclusion: JLS472H~~
Breadth Requirement: Natural Sciences

Rationale:
1. PLID55H3 has been retired – the added brackets will signal this to students.
2. JLS472H has been removed as an exclusion because it is more general in nature and covers topics not discussed in PLID56H.

Program Changes

Specialist in French (BA)
Major in French (BA)

Overview of Changes:
Add FREB08H3 as an optional course to complete the Linguistics components of the programs.

Rationale:
FREB08H3 has been added as an optional course to the Linguistics component of the programs because there is a linguistic component to the course. For a number of years, we have been allowing students to use this course to fulfill this requirement, so the addition simply formalizes existing practice.

Calendar Copy Showing Changes:
SPECIALIST PROGRAM IN FRENCH (ARTS)
For curriculum inquiries, contact the CFL Undergraduate Assistant: cfl-ua@utsc.utoronto.ca

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.

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 Calendar.

Program Requirements
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:

4.0 credits consisting of:
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)

2.0 credits selected from:
FREB08H3 Practical Translation I
FREB44H3 Introduction to Linguistics: French Phonetics and Phonology (taught in French)

FREB45H3 Introduction to Linguistics: French Morphology and Syntax (taught in French)
FREB46H3 History of the French Language (taught in French)
FREC12H3 Semantics: The Study of Meaning (taught in English)
FREC46H3 Syntax II (taught in English)
FREC47H3 Pidgin and Creole Languages (taught in English)
FREC48H3 Sociolinguistics of French (taught in French)
(FRED49H3) French Semantics
1.5 credits selected from:
FREB22H3 The Society and Culture of Québec
FREB27H3 Modern France
FREB28H3 The Francophone World
FREB70H3 Cinema of the French-Speaking World
FREB84H3 Folktale, Myth and the Fantastic in the French-Speaking World
FREC54H3 Paris Through the Ages
FREC83H3 Cultural Identities and Stereotypes in the French-Speaking World

3.0 credits in literature which must include:
(a) FREB50H3 Introduction to French Literature I
(b) FREB35H3 Francophone Literature
(c) 1.0 credit in literature from Québec, selected from the following:
FREB36H3 The 20th Century Québec Novel
FREB37H3 Contemporary Québec Drama
FREC38H3 Topics in the Literature of Québec
FRED14H3 Advanced Topics in the Literature of Québec
(d) 1.0 credit in French Literature, selected from the following:
FREB51H3 Literary History in Context: From the Middle Ages to the 17th Century
FREB55H3 Literary History in Context: 18th and 19th Centuries
FREC57H3 French Fiction of the 19th Century
FREC58H3 Literature of the Anciene Regime
FREC63H3 Topics in French Literature: Encountering Foreign Cultures: Travel Writing in France
FREC64H3 French Fiction of the 20th and 21st Centuries
FRED13H3 Advanced Topics in French Literature

1.5 additional credits in French from either the above-mentioned courses (where not already taken) or from the list below:
FREB08H3 Practical Translation I
FREB11H3 French Language in the School System
FREB17H3 Spoken French: Conversation and Pronunciation
FREB18H3 Business French
FREB20H3 Teaching Chlldren's Literature in French
FREC11H3 Teaching French as a Second Language
FREC18H3 Translation for Business and Professional Needs

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

MAJOR PROGRAM IN FRENCH (ARTS)
For curriculum inquiries, contact the CFL Undergraduate Assistant: cfl-ua@utsc.utoronto.ca

Program Requirements
Students must complete 8.0 credits in French, of which at least 2.0 credits must be at the C- or D-level, including:

3.5 credits as follows:
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 Practive VII: Written French or FRED06H3* Language Practice VIII: Oral French]
(Students with special proficiency in the French language may substitute other FRE courses with the permission of the Associate Chair)

1.0 credit in Linguistics:
Linguistics courses taught in French are:
FREB08H3 Practical Translation I
FREB44H3 Introduction to Linguisitcs: French Phonetics and Phonology
FREB45H3 Introducation to Linguistics: French Morphology and Syntax
FREB46H3 History of the French Language
FREC48H3 Sociolinguistics of French
Linguistics courses taught in English are:
FREC12H3 Semantics: The Study of Meaning
FREC46H3 Syntax II
FREC47H3 Pidgin and Creole Languages

1.0 credit in Culture:
Culture courses are:
FREB22H3 The Society and Culture of Québec
FREB27H3 Modern France
FREB28H3 The Francophone World
FREB70H3 Cinema of the French-Speaking World
FREB84H3 Folktale, Myth and the Fantastic in the French-Speaking World
FREC54H3 Paris Through the Ages
FREC83H3 Cultural Identities and Stereotypes in the French-Speaking World

2.5 additional credits in French as follows:
A) FREB50H3 Introduction to Literature in French I
B) 1.0 credit in French Literature taken from the following:
FREB35H3 Francophone Literature
FREB36H3 The 20th Century Québec Novel
FREB37H3 Contemporary Québec Drama
FREB51H3 Literary History in Context: From the Middle Ages to the 17th Century
FREB55H3 Literary History in Context: 18th and 19th Centuries

FREC38H3 Topics in the Literature of Québec
FREC58H3 Literature of the Ancien Regime
FREC63H3 Topics in French Literature: Encountering Foreign Cultures: Travel Writing in French
FREC64H3 French Fiction of the 20th and 21st Centuries
FRED14H3 Advanced Topics in the Literature of Québec

C) 1.0 credit in French courses not already taken
Note: At the A-level, only FREA01H3 and FREA02H3 may be counted towards a French Program.

Note: For Co-op opportunities related to the Major Program in French please see the Humanities and Social Sciences Co-operative section in this Calendar.

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

Minor in English to Chinese Translation (Arts)

Overview of Changes:
Add ECTB60H3 as an optional course in component 2 of the program requirements.

Rationale:
ECTB60H3 is a new course. Adding it as an option to component 2 of the program requirements will provide students with an additional course that they could use to fulfill this particular requirement. It will also alleviate some of the pressure from the waitlists for the other courses found in that bin.

Calendar Copy Showing Changes:
MINOR PROGRAM IN ENGLISH TO CHINESE TRANSLATION (ARTS)
This program is designed for students, fluent in both English and Chinese, who are interested in English to Chinese translation. It will equip students with the fundamental theoretical knowledge and practical skills required in this profession.

Program Requirements
Students are required to complete a total of 4.0 credits.

1. 2.0 credits:
LINA01H3 Introduction to Linguistics
LINB06H3 Syntax
LINB60H3 Structure of Chinese
ECTB61H3 English to Chinese Translation: Theory and Practice

2. 1.0 credit from the following:
ECTB60H3 Food, Cultures, and Translation
ECTC61H3 Translation Studies in Literature
ECTD68H3 Translation for Business and Media
ECTD69H3 Translation for Government and Public Administration

3. 1.0 credit from the following:
LGGC64H3 Reading Chinese: China from the Inside Out
LGGC65H3 Reading Chinese: Global Perspectives

LGGC66H3 Classical Chinese
LGGC67H3 Literary Chinese

Specialist in Linguistics (BA)
Major in Linguistics (BA)

Overview of Changes:
1. Remove PLID55H3 and add PLID74H3 to component 2 of the Specialist in Linguistics
2. Add ECT (English Chinese Translation) courses as options to complete the 1.0 credit in language courses component of both the Specialist (component 3) and Major (component 4) programs.

Rationale:
1. PLID55H3 is being retired; PLID74H3 is a new course which is a suitable option to complete component 2 of the Specialist in Linguistics and component 3 of the Specialist in Psycholinguistics.
2. ECT courses are classified as language courses, so it is appropriate to allow students to use them to fulfill the language based requirement for the LIN Specialist and Major programs. Adding ECT courses as an option for the language requirement may also alleviate some pressure from the waitlists for FRE and LGG courses.

Calendar Copy Showing Changes:
SPECIALIST PROGRAM IN LINGUISTICS (ARTS)

For curriculum inquiries, contact the CFL Undergraduate Assistant: cfl-ua@utsc.utoronto.ca

Program Requirements
Students must complete 12.0 credits, including 4.0 credits at the C- and D-level of which 1.0 credit must be at the D-level as follows:

1. All of the following:
LINA01H3 Introduction to Linguistics
LINA02H3 Applications of Linguistics
LINB04H3 Phonology I
LINB06H3 Syntax I
LINB09H3 Phonetics: The Study of Speech Sounds
LINB10H3 Morphology
LINC02H3 Phonology II
LINC11H3 Syntax II
LINC12H3 Semantics: The Study of Meaning

2. 4.5 credits from the following, including at least 1.5 credits from Group A and at least 1.5 credits from Group B:
Group A
LINB13H3 Language Diversity and Language Universals
LINB18H3 English Grammar
LINB20H3 Sociolinguistics
LINB60H3 Structure of Chinese
LINB62H3 Structure of American Sign Language
LINC28H3 Language and Gender
LINC47H3 Pidgin and Creole Languages

LINC61H3 Structure of a Language
LIND09H3 Phonetic Analysis
LIND29H3 Linguistic Research Methodologies

Group B
LINB29H3 Quantitative Methods in Linguistics
PLIC24H3 First Language Acquisition
PLIC25H3 Second Language Acquisition
PLIC55H3 Psycholinguistics
PLID34H3 The Psycholinguistics of Reading
PLID44H3 Acquisition of the Mental Lexicon
PLID50H3 Speech Perception
~~PLID55H3 Disorders of Speech and Language~~
PLID74H3 Language and Aging

3. 1.0 credit of language study in one or more languages, which may include LINB60H3 or LINB62H3 or LINC61H3; ECT, FRE, or LGG courses or language courses at another campus.

4. A further 2.0 credits in any LIN, PLI, JAL or JLP courses.

MAJOR PROGRAM IN LINGUISTICS (ARTS)

For curriculum inquiries, contact the CFL Undergraduate Assistant: cfl-ua@utsc.utoronto.ca

Program Requirements
Students must complete 8.0 credits, 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

2. One of the following:
LINB10H3 Morphology
LINB20H3 Sociolinguistics
LINC12H3 Semantics: The Study of Meaning

3. 4.0 further credits in LIN and/or PLI, of which at least two credits must be at the C- or D-level.

4. credit of language study in one or more languages, which may include ECT, FRE, or LGG courses; language courses at another campus; LINB60H3 or LINB62H3 or LINC61H3.

Specialist in Psycholinguistics (BA)

Overview of Changes:
Remove PLID55H3 and add PLID74H3 to component 3 of the Specialist in Psycholinguistics

Rationale:
PLID55H3 is being retired; PLID74H3 is a new course which is a suitable option to complete component 2 of the Specialist in Linguistics and component 3 of the Specialist in Psycholinguistics.

Calendar Copy Showing Changes:
SPECIALIST PROGRAM IN PSYCHOLINGUISTICS (ARTS)

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:

1. All of the following:
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
LINB29H3 Quantitative Methods in Linguistics
PLIC24H3 First Language Acquisition
PLIC55H3 Psycholinguistics

2. 1.5 credits from the following courses:
LINB10H3 Morphology
LINB20H3 Sociolinguistics
LINC02H3 Phonology II
LINC11H3 Syntax II
LINC12H3 Semantics: The Study of Meaning

3. 2.5 credits from the following courses:
LINB62H3 Structure of American Sign Language
LIND09H3 Phonetic Analysis
PLIC25H3 Second Language Acquisition
PLIC75H3 Language and the Brain
PLID34H3 Psycholinguistics of Reading
PLID44H3 Acquisition of the Mental Lexicon
PLID50H3 Speech Perception
~~PLID55H3 Disorders of Speech and Language~~
PLID74H3 Language and Aging

4. 1.5 credits from the following courses:
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

5. 2.0 further credits in LIN and/or PLI

Department of Human Geography

Note regarding consultation:
All changes have been approved by the Departmental Curriculum Committee, and reviewed by the Dean's Office. Where changes may have had an impact on outside academic units, appropriate consultation has taken place.

Program Changes

Major in City Studies (BA)
Major (Co-operative) in City Studies (BA)

Overview of Changes:
1. Delete Guidelines for Major Program Completion and Concentrations table.
2. Move component 4 of the program requirements to component 3; component 3 becomes component 4.
3. Add CITC09H3 as an optional course to component 4.
4. Consolidate components 3 and 5.

Rationale:
1. The Guidelines and Concentrations table are being moved to the introduction to the City Studies section of the Calendar since they apply to all programs – not just the Major in City Studies.
2. Component 4 (Methods) has been moved to component 3 to align the Major and Specialist programs; it is also beneficial for students to complete these courses early on in the program.
3. CITC09H3 has been added to component 4 because it is a newer course that functions as a suitable option to complete this component.
4. Components 3 and 5 have been consolidated to align the Major/Major Co-op in City Studies with the Specialist in City Studies.

Calendar Copy Showing Changes:
MAJOR PROGRAM IN CITY STUDIES (ARTS)

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

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

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

Note: It is Department policy that students without the prerequisite will be removed from the course. Students should carefully check the prerequisites required for particular B-and C-level courses.
Note: That some upper-level courses (e.g. SOC and ECM) are part of limited enrolment programs, with first preference in these courses going to students enrolled in those programs.

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

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

2. Core courses (1.5 full credits including)
   CITB02H3 Foundations of City Studies
   and
   1.0 credits from among the following:
   CITB01H3 Canadian Cities and Planning
   CITB03H3 Social Planning and Community Development
   CITB04H3 City Politics
   CITB08H3 Economy of Cities

5. 3. Methods (1.0 credit as follows): (*moved full component 4 to component 3*)
   STAB23H3 Introduction to Statistics for the Social Sciences
   0.5 credit from the following:
   GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning

GGRB30H3 Fundamentals of GIS I
GGRC31H3 Qualitative Geographical Methods: Place and Ethnography

~~3. Fundamentals of City Studies (at least 1.5 full credits from among the following):~~ (*moved full component 3 to component 5*)
~~[EESA05H3 Environmental Hazards *or* EESA06H3 Introduction to Planet Earth]~~
~~GGRB02H3 The Logic of Geographic Thought~~
~~GGRB05H3 Urban Geography~~
~~GGRB13H3 Social Geography~~
~~GGRB28H3 Geographies of Disease~~
~~POLB50Y3 Canadian Government and Politics~~
~~SOCB44H3 Sociology of Cities and Urban Life~~
~~WSTB12H3 Women, Violence and Resistance~~

~~4. Methods (1.0 full credit):~~ (*moved full component 4 to component 3*)
~~STAB23H3 Introduction to Statistics for the Social Sciences~~
~~0.5 credit from the following:~~
~~- GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning~~
~~- GGRB30H3 Fundamentals of GIS I~~
~~- GGRC31H3 Qualitative Geographical Methods: Place and Ethnography~~
–

~~5.~~ 4. City Studies Applications (~~at least~~ 2.0 ~~full~~ credits from among the following):
CITC01H3 Urban Communities and Neighbourhoods Case Study: East Scarborough
CITC02H3 Learning In Community Service
CITC03H3 Real Estate and the City
CITC04H3 Municipal and Planning Law in Ontario
CITC07H3 Urban Social Policy
CITC08H3 Cities and Community Development
CITC09H3 Introduction to Planning History: Toronto and Its Region
CITC10H3 Selected Issues in City Studies
CITC12H3 City Structures and City Choices: Local Government, Management, and Policy Making
CITC14H3 Environmental Planning
CITC15H3 Taxing and Spending: Public Finance in Canadian Cities
CITC16H3 Planning and Governing the Metropolis
CITC17H3 Civic Engagement in Municipal Politics
CITC18H3 Urban Transportation Policy Analysis
CITD01H3 City Issues and Strategies
CITD05H3 City Studies Workshop I
CITD06H3 City Studies Workshop II
CITD10H3 Seminar in Selected Issues in City Studies
CITD30H3 Supervised Research Project

5. Approaches to Cities (at least 1.5 credits from among the following):
ANTC18H3 Urban Anthropology
[EESA05H3 Environmental Hazards or EESA06H3 Introduction to Planet Earth] (*moved from component 3)*
EESD20H3 Urban Environmental Problems of the Greater Toronto Area
GGRB02H3 The Logic of Geographic Thought (*moved from component 3)*

GGRB05H3 Urban Geography (*moved from component 3)*
GGRB13H3 Social Geography (*moved from component 3)*
GGRB28H3 Geographies of Disease (*moved from component 3)*
GGRC02H3 Population Geography
GGRC10H3 Urbanization and Development
GGRC11H3 Current Topics in Urban Geography
GGRC12H3 Transportation Geography
GGRC13H3 Urban Political Geography
GGRC27H3 Location and Spatial Development
GGRC33H3 The Toronto Region
GGRC40H3 Megacities and Global Urbanization
GGRC48H3 Geographies of Urban Poverty
GGRD09H3 Feminist Geographies
GGRD14H3 Social Justice and the City
HISC58H3 Delhi and London: Imperial Cities, Mobile People
POLB50Y3 Canadian Government and Politics (*moved from component 3)*
POLC53H3 Canadian Environmental Policy
PPGC66H3/(POLC66H3) Public Policy Making
PPGC67H3/(POLC67H3) Public Policy in Canada
SOCB44H3 Sociology of Cities and Urban Life (*moved from component 3)*
SOCC26H3 Sociology of Urban Cultural Policies
SOCC27H3 Sociology of Suburbs and Suburbanization
WSTB12H3 Women, Violence and Resistance (*moved from component 3)*
WSTC14H3 Women, Community, and Policy Change
WSTC20H3 Women and Environments

MAJOR (CO-OPERATIVE) PROGRAM IN CITY STUDIES (ARTS)
Co-op Contact: askcoop@utsc.utoronto.ca
The Co-operative Program in City Studies is a work-study program that combines academic studies in various disciplines with work terms in the public, private, or non-profit sector. Students complete two works terms of four months each along with their academic programs. The program gives students the opportunity to develop a set of academic and professional skills to secure employment in the public sector, private enterprise, and non-profit organizations, or to continue to graduate training in an academic field related to cities.

For information on admissions, fees, work terms and standing in the Program, please see section 6B.5 (Co-operative Programs) in this *Calendar*.

Program Admission
Prospective Applicants: For direct admission from secondary school or for students who wish to transfer to UTSC from another U of T faculty or from another post-secondary institution, see section 6B.5 (Co-operative Programs) in this *Calendar*.
Current U of T Scarborough students: Application procedures can be found at the Registrar's Office website: www.utsc.utoronto.ca/subjectpost. The minimum qualifications for entry are 4.0 credits including 1.0 from the courses listed in Requirement 1 of the Major Program in City Studies plus a cumulative GPA of at least 2.5.

Program Requirements
The Major (Co-operative) Program in City Studies combines academic studies in various disciplines

with work terms in private enterprise, the public sector, or non-governmental organizations. It includes all of the requirements of the Major Program listed above. In addition, students must successfully complete the non-credit Arts & Science Co-op Work Term Preparation activities and two work terms.

Work Terms
Students must satisfactorily complete two work terms, each of four-months duration. To be eligible for the first work term, students must have completed at least 10 full credits, including 5 full credits as a U of T Scarborough student. These must include at least one full credit drawn from each of areas 1 (Introduction to Social Science Thought), 2 (Core Courses), 3 (Fundamentals of City Studies), and 4 (Methods). 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. Students are advised that being available for work terms during fall and winter may increase the variety of work available, and this in turn requires students to take courses during at least one summer session.

Department of Management

Note regarding consultation:
All changes have been approved by the Departmental Curriculum Committee, and reviewed by the Dean's Office. Where changes may have had an impact on outside academic units, appropriate consultation has taken place.

Program Changes

Specialist in Strategic Management (BBA)
Specialist (Co-operative) in Strategic Management (BBA)

Overview of Changes:
1. Add MGSD15H3 as an optional course to complete component 6 of the Management Strategy stream
2. Add round brackets to MGSD10H3 in component 6 of the Management Strategy stream

Rationale:
1. MGSD15H3 is a new course that will replace MGSD10H3; it is a suitable optional course to include in this bin.
2. MGSD10H3 is being retired; adding the round brackets will signal this change to students.

Calendar Copy Showing Changes:

SPECIALIST PROGRAM IN STRATEGIC MANAGEMENT (BACHELOR OF BUSINESS ADMINISTRATION)

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

This Program has two streams:

The Management Strategy stream is designed to give students a broad exposure to all functional areas

of Management, as well as a solid grounding in Strategic Management, while providing a variety of elective courses to appeal to students interested in any one of the three sectors. It covers the direction and coordination of private sector, public sector, or non-profit sector organizations.

The Entrepreneurship stream is designed to provide students with the tools to work in a variety of self-employment or entrepreneur career paths, which include working in family businesses, start-ups, or as consultants. The program will allow for significant training of entrepreneurial skills and non-entrepreneurial skills.

Both streams have a non-co-op and a co-op component. Co-op students should see the section regarding work term requirements for specific details on courses required before each work term.

Program Requirements
To complete the program, a student must meet the course requirements described below. The program requirements comprise a core of 12.5 to 13.5 credits common to both streams, and additional requirements which depend on the stream for a total of 15.0 to 16.0 credits for the Management Strategy stream and 16.0 to 17.0 credits for the Entrepreneurship stream.

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

Core (12.5 to 13.5 credits):

1. (7.5 to 8.5 credits, depending on the combination of courses completed):
MGMA01H3/(MGTB04H3) Principles of Marketing
MGTA05H3 Foundations of Business Management or [(MGTA01H3/MGTA03H3) and (MGTA02H3/MGTA04H3)]
[MGTA35H3 Management Communications for non Co-op or MGTA36H3 Management Communications for Co-op or (MGTC36H3)]
MGAB01H3/(MGTB05H3) Introductory Financial Accounting l
MGAB02H3/(MGTB06H3) Introductory Financial Accounting ll
MGAB03H3/(MGTB03H3) Introductory Management Accounting
MGFB10H3/(MGTB09H3) Principles of Finance
[MGHB02H3 Managing People and Groups in Organizations or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)]
MGHB12H3/(MGTC22H3) Human Resource Management
MGMB01H3/(MGTC05H3) Marketing Management
MGFC10H3/(MGTC09H3) Intermediate Finance
MGHC02H3/(MGTC90H3) Management Skills
MGOC10H3/(MGTC74H3) Analysis for Decision Making
MGOC20H3/(MGTC75H3) Operations Management: A Mathematical Approach
One additional half-credit (0.5) at the D-level in either Management or Economics for Management Studies courses

2. (1.0 credit):
[MATA32H3 and MATA33H3] strongly recommended, or
[MATA30H3/A31H3 and MATA35H3/A36H3/A37H3]

3. (4.0 credits):
MGEA02H3/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach

MGEA06H3/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach
MGEB02H3/(ECMB02H3) Price Theory: A Mathematical Approach
MGEB06H3/(ECMB06H3) Macroeconomic Theory and Policy: A Mathematical Approach
MGEB11H3/(ECMB11H3) Quantitative Methods in Economics l
MGEB12H3/(ECMB12H3) Quantitative Methods in Economics ll, and
1 full credit of C-level Economics for Management Studies courses [excluding MGEC91H3/(ECMC91H3), MGEC92H3/(ECMC92H3), MGEC93H3/(ECMC93H3)]

Management Strategy Stream (2.5 credits):

4. At least 0.5 credit of courses emphasizing strategic management, chosen from:
MGSB22H3/(MGTC38H3) Entrepreneurship
MGSC12H3/(MGTC35H3) Narrative and Management
MGSC14H3/(MGTC59H3) Management Ethics
MGSC20H3/(MGTC19H3) Consulting and Contracting: New Ways of Work
MGSC30H3/(MGTC31H3) The Legal Environment of Business l
MGSD24H3/(MGTC39H3) New Venture Creation and Planning

5. 1.0 credit from:
MGSC01H3/(MGTC41H3) Corporate Strategy
MGSC03H3/(MGTC42H3) Public Management, or
MGSC05H3/(MGTC45H3) The Changing World of Business-Government Relations

6. 0.5 credit from:
MGEB32H3/(ECMB36H3) Economics Aspects of Public Policy
MGEC31H3/(ECMC31H3) Economics of the Public Sector: Taxation
MGEC32H3/(ECMC32H3) Economics of the Public Sector: Expenditures
MGED43H3/(MGEC43H3)/(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) Consulting and Contracting: New Ways of Work
MGSC30H3/(MGTC31H3) The Legal Environment of Business l
MGSC32H3/(MGTC32H3) The Legal Environment of Business ll
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
MGSD15H3 Managing in the Information Economy
MGSD30H3/(MGTD45H3) Intellectual Property Law
PPGC66H3 Public Policy Making

7. (0.5 credit):
MGSD01H3/(MGTD47H3) Senior Seminar in Strategic Management

Entrepreneurship Stream (3.5 credits):

4. At least 0.5 credit of courses emphasizing strategic management, chosen from:
MGSC12H3/(MGTC35H3) Narratives on Management and Organization
MGSC14H3/(MGTC59H3) Management Ethics
MGSC30H3/(MGTC31H3) The Legal Environment of Business l

5. (3.0 credits):
MGFC20H3/(MGTC70H3) Personal Financial Management
MGHC52H3/(MGTC52H3) Business Negotiation
MGSB22H3/(MGTC38H3) Entrepreneurship
MGSC20H3/(MGTC19H3) Consulting and Contracting: New Ways of Work
MGSC26H3 Venture Capital
MGSD24H3/(MGTC39H3) New Venture Creation and Planning

NOTE: In selecting options and electives, students should refer to the guidelines for program breadth and depth found in section 6A.2 (Degree Requirements) of this *Calendar*.

Department of Psychology

Note regarding consultation:
All changes have been approved by the Departmental Curriculum Committee, and reviewed by the Dean's Office. Where changes may have had an impact on outside academic units, appropriate consultation has taken place.

Program Changes

Specialist in Mental Health Studies (BSc)
Specialist (Co-operative) in Mental Health Studies (BSc)

Overview of Changes:
1. PSYD31H3 is added as an option to complete component 8
2. HLTB50H3 is added as an option to complete component 10
3. PSYC09H3 is added to the list of courses students must complete before their first work term; students may now complete PSYC08H3 or PSYC09H3 (this change only impacts the Specialist Co-op in Mental Health Studies)

Rationale:
1. Adding PSYD31H3 will provide greater breadth of options for students to meet their D-level program requirements
2. Adding HLTB50H3 will compliment the current list of course options and the mental health area of study
3. PSYC09H3 has been added to the list of courses students must complete before their first work term because it can be used to complete component 2 of the program requirements

Calendar Copy Showing Changes:
SPECIALIST PROGRAM IN MENTAL HEALTH STUDIES (SCIENCE)

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. Introductory Psychology (1.0 credit)
PSYA01H3 Introductory Psychology: Part I
PSYA02H3 Introductory Psychology: Part II

2. Statistical Methods (1.0 credit)
PSYB07H3 Data Analysis in Psychology
[PSYC08H3 Advanced Data Analysis in Psychology or PSYC09H3 Applied Multiple Regression in Psychology]

3. Laboratory Methods (1.0 credit)
PSYB01H3 Psychological Research Laboratory
PSYC37H3 Psychological Assessment

4. PSYC02H3 Scientific Communication in Psychology (0.5 credit)

5. PSYC85H3 History of Psychology (0.5 credit)

6. 1.0 credit as follows:
PSYB30H3 Personality
PSYB32H3 Abnormal Psychology

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):
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

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 credit at the D-level ~~credit~~, with at least 0.5 from the following: ~~list (1.0 credit)~~
PSYD30H3 Current topics in Personality Psychology
PSYD31H3 Cultural-Clinical Psychology
PSYD32H3 Personality Disorders

PSYD33H3 Current topics in Abnormal Psychology
PSYD35H3 Clinical Psychopharmacology

9. 1.5 additional ~~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
HLTB50H3 Introduction to Health Humanities
HLTC05H3 Society, Health and Illness
HLTC22H3 Health, Aging, and the Life Cycle
HLTC23H3 Issues in Child Health and Development
HLTC42H3 Emerging Health Issues and Policy Needs
IDSB04H3 Introduction to International/Global Health
IDSC11H3 Issues in Global and International Health
LINB20H3 Sociolinguistics
PHLA11H3 Introduction to Ethics
PHLB07H3 Ethics
PHLB09H3 Biomedical Ethics
PHLB81H3 Theories of Mind
SOCB22H3 Sociology of Gender
SOCB49H3 Sociology of Family
SOCB50H3 Deviance and Normality I
(SOCB51H3) Deviance and Normality II

SPECIALIST (CO-OPERATIVE) PROGRAM IN MENTAL HEALTH STUDIES (SCIENCE)
The ~~Program~~ Specialist Co-op in Mental Health Studies 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 section 6B.5 (Co-operative Programs) in this *Calendar*.

~~Program Admission~~ **Enrolment Requirements**
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 section 6B. 5 (Co-operative Programs) in this *Calendar*.

Current U of T Scarborough students: Application procedures can be found at the Registrar's Office website at: www.utsc.utoronto.ca/subjectpost. The minimum qualifications for entry are 4.0 credits including PSYA01H3 & PSYA02H3 plus a cumulative GPA of at least 2.75. Students who have completed 10.0 credits, or more, are not eligible to apply to the program. Students currently enrolled in the Specialist Co-op in Mental Health Studies, who have completed 10.0 credits, or more, are not eligible to transfer to the Specialist Co-op in Psychology, or vice-versa.

Program Requirements
~~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. Introduction to Psychology (1.0 credit)
PSYA01H3 Introductory Psychology: Part I
PSYA02H3 Introductory Psychology: Part II

2. Statistical Methods (1.0 credit)
PSYB07H3 Data Analysis in Psychology*
[PSYC08H3 Advanced Data Analysis in Psychology or PSYC09H3 Applied Multiple Regression in Psychology]*

3. Laboratory Methods (1.5 credits)
PSYB01H3 Psychological Research Laboratory*
PSYC32H3 Clinical Neuropsychology Laboratory*
PSYC37H3 Psychological Assessment**

4. PSYC02H3 Scientific Communication in Psychology* (0.5 credit)

5. PSYC85H3 History of Psychology (0.5 credit)

6. 1.0 credit as follows:
PSYB30H3 Personality
PSYB32H3 Abnormal Psychology*

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):
Psycho-Social Grouping
PSYB45H3 Behaviour Modification
PSYC18H3 The Psychology of Emotion
PSYC35H3 Advanced Personality Psychology
PSYC36H3 Psychotherapy
PSYC39H3 Psychology and the Law

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 credit at the D-level ~~credit~~, with at least 0.5 credit from the following list:
PSYD30H3 Current topics in Personality Psychology
PSYD31H3 Cultural-Clinical Psychology
PSYD32H3 Personality Disorders
PSYD33H3 Current topics in Abnormal Psychology
PSYD35H3 Clinical Psychopharmacology

9. An additional 1.0 credit ~~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
HLTB50H3 Introduction to Health Humanities
HLTC05H3 Society, Health and Illness
HLTC22H3 Health, Aging, and the Life Cycle
HLTC23H3 Issues in Child Health and Development
HLTC42H3 Emerging Health Issues and Policy Needs
IDSB04H3 Introduction to International/Global Health
IDSC11H3 Issues in Global and International Health
LINB20H3 Sociolinguistics
PHLA11H3 Introduction to Ethics
PHLB07H3 Ethics
PHLB09H3 Biomedical Ethics
PHLB81H3 Theories of Mind
SOCB22H3 Sociology of Gender
SOCB49H3 Sociology of Family
SOCB50H3 Deviance and Normality I
(SOCB51H3) Deviance and Normality II

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

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 or PSYC09H3], 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.

Specialist in Psychology (BSc)
Specialist (Co-operative) in Psychology (BSc)

Overview of Changes:
1. Add PSYD54H3 as an optional D-level course to component 7
2. PSYC09H3 is added to the list of courses students must complete before their first work term; students may now complete PSYC08H3 or PSYC09H3 (this change only impacts the Specialist Co-op in Mental Health Studies)

Rationale:
1. PSYD54H3 is a new course which provides greater breadth of "natural science" options for students
2. PSYC09H3 has been added to the list of courses students must complete before their first work term because it can be used to complete component 2 of the program requirements

Calendar Copy Showing Changes:
SPECIALIST PROGRAM IN PSYCHOLOGY (SCIENCE)

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

1. Introduction to Psychology (1.0 credit):
PSYA01H3 Introductory Psychology: Part I
PSYA02H3 Introductory Psychology: Part II

2. Statistical Methods (1.0 credit)
PSYB07H3 Data Analysis in Psychology
[PSYC08H3 Advanced Data Analysis in Psychology or PSYC09H3 Applied Multiple Regression in Psychology]

3. Laboratory Methods (1.0 credit)
PSYB01H3 Psychological Research Laboratory
0.5 credit from among the following:
- PSYC04H3 Brain Imaging Laboratory
- PSYC05H3 Human Movement Laboratory
- PSYC06H3 Psychophysiology Laboratory
- PSYC11H3 Social Psychology Laboratory
- PSYC26H3 Developmental Psychology Laboratory
- PSYC58H3 Cognitive Psychology Laboratory
- NROC63H3 Neuroscience Laboratory

4. PSYC02H3 Scientific Communication in Psychology (0.5 credit)

5. PSYC85H3 History of Psychology (0.5 credit)

6. 5.0 credits ~~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. 1.0 credit ~~Credits~~ at the D-level ~~(1.0 credit)~~
Students must take a 0.5 credit from each of the groupings listed below:
Group One
PSYD11H3 Psychology of Interpersonal Relationships
PSYD12H3 Social Psychology of the Self
PSYD14H3 Psychology of Morality
PSYD15H3 Current Topics in Social Psychology

PSYD16H3 Critical Analysis in Social Psychology
PSYD18H3 Psychology of Gender
PSYD20H3 Current Topics in Developmental Psychology
PSYD22H3 Socialization Processes

Group Two
PSYD34H3 Human Intelligence
PSYD50H3 Current Topics in Memory and Cognition
PSYD51H3 Current Topics in Perception
PSYD54H3 Current Topics in Visual Recognition
PSYD66H3 Current Topics in Human Brain and Behaviour

8. 2.5 additional ~~Additional~~ credits in Psychology ~~(2.5 credits)~~
Students must choose 2.5 further credits from any of the remaining courses in Psychology. In selecting the 2.5 credits, 1.0 credit must be at the C-level. Supervised study or thesis courses may be used to fulfill a maximum of 0.5 credit.

SPECIALIST (CO-OPERATIVE) PROGRAM IN PSYCHOLOGY (SCIENCE)
The ~~Program~~ Specialist Co-op in Psychology combines academic studies in the field of psychology with practical work experience. 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.

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 section 6B.5 (Co operative Programs) in this *Calendar*.

~~Program Admission~~ **Enrolment Requirements**
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 section 6B.5 (Co-operative Programs) in this Calendar.

Current U of T Scarborough students: Application procedures can be found at the Registrar's Office website at: www.utsc.utoronto.ca/subjectpost. The minimum qualifications for entry are 4.0 credits including PSYA01H3 & PSYA02H3 plus a cumulative GPA of at least 2.75. Students who have completed 10.0 credits, or more, are not eligible to apply to the program. Students currently enrolled in the Specialist Co-op in Psychology, who have completed 10.0 credits, or more, are not eligible to transfer to the Specialist Co-op in Mental Health Studies, or vice-versa.

~~Course Requirements~~
~~The program requires the completion of 12.5 credits as specified for the Specialist Program in~~

~~Psychology.~~

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

1. Introduction to Psychology (1.0 credit)
PSYA01H3 Introductory Psychology: Part I
PSYA02H3 Introductory Psychology: Part II

2. Statistical Methods (1.0 credit)
PSYB07H3 Data Analysis in Psychology*
[PSYC08H3 Advanced Data Analysis in Psychology or PSYC09H3 Applied Multiple Regression in Psychology]*

3. Laboratory Methods (1.0 credit)
PSYB01H3 Psychological Research Laboratory*
0.5 credit from among the following:
- PSYC04H3 Brain Imaging Laboratory
- PSYC05H3 Human Movement Laboratory
- PSYC06H3 Psychophysiology Laboratory
- PSYC11H3 Social Psychology Laboratory
- PSYC26H3 Developmental Psychology Laboratory
- PSYC58H3 Cognitive Psychology Laboratory
- NROC63H3 Neuroscience Laboratory

4. PSYC02H3 Scientific Communication in Psychology (0.5 credit)*

5. PSYC85H3 History of Psychology (0.5 credit)

6. 5.0 credits ~~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. 1.0 credit ~~Credits~~ at the D-level ~~(1.0 credit)~~
Students must take 0.5 credit from each of the groupings listed below:
Group One
PSYD11H3 Psychology of Interpersonal Relationships
PSYD12H3 Social Psychology of the Self
PSYD14H3 Psychology of Morality
PSYD15H3 Current Topics in Social Psychology
PSYD16H3 Critical Analysis in Social Psychology
PSYD18H3 Psychology of Gender
PSYD20H3 Current Topics in Developmental Psychology
PSYD22H3 Socialization Processes

Group Two
PSYD34H3 Human Intelligence
PSYD50H3 Current Topics in Memory and Cognition
PSYD51H3 Current Topics in Perception
PSYD54H3 Current Topics in Visual Recognition
PSYD66H3 Current Topics in Human Brain and Behaviour

8. 2.5 additional ~~Additional~~ credits in Psychology ~~(2.5 credits)~~
Students must choose 2.5 further credits from any of the remaining courses in Psychology. In selecting the 2.0 credits, 1.0 credit must be at the C-level. Supervised study or thesis courses may be used to fulfill a maximum of 0.5 credit.

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

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 or PSYC09H3]. 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~~, are to be taken 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.

UNIVERSITY OF TORONTO SCARBOROUGH

2017-18 Curriculum Cycle
Undergraduate Minor Modifications for Information
Report 2 (From Curriculum Manager)

January 05, 2017

Biological Sciences, Department of

10 Program Minor Modifications (Abbreviated Divisional Review)

SPECIALIST (CO-OPERATIVE) PROGRAM IN MOLECULAR BIOLOGY AND BIOTECHNOLOGY (SCIENCE)

Current Completion Requirements:

Program Requirements
This program consists of 14.0 required credits plus two work-terms.

A. Course Requirements
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 I: Reactions and Mechanisms

1.0 Credit in Mathematics
~~MATA29H3 Calculus I for the Life Sciences~~
~~MATA35H3 Calculus II for Biological Sciences~~
Choose from:
[MATA29H3 Calculus I for the Life Sciences and MATA35H3 Calculus II for Biological Sciences] *or* [MATA30H3 Calculus I for Physical Sciences and MATA36H3 Calculus II for Physical Sciences]

1.0 Credit in Physics
Choose 0.5 credit from:
PHYA10H3 Introduction to Physics IA
PHYA11H3 Introduction to Physics IB

Choose 0.5 credit from:
PHYA21H3 Introduction to Physics IIA
PHYA22H3 Introduction to Physics IIB

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

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

0.5 Credit of Biology Core Labs
BIOB12H3 Cell and Molecular Biology Laboratory

1.0 Credit of Organic Chemistry Courses
CHMB41H3 Organic Chemistry I
CHMB42H3 Organic Chemistry II

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

Third Year
3.0 Credits of Biology C-level Courses
BIOC12H3 Biochemistry I: Proteins and Enzymes
BIOC13H3 Biochemistry II: Bioenergetics and Metabolism
BIOC15H3 Genetics
BIOC17H3 Microbiology
BIOC23H3 Practical Approaches to Biochemistry
BIOC39H3 Immunology (can be completed in third or fourth year)

0.5 Credit in Computer Science
Choose from:
CSCA08H3 Introduction to Computer Science I (most appropriate course for computer science students)
CSCA20H3 Introduction to Programming (most appropriate course for non-computer science students)
PSCB57H3 Introduction to Scientific Computing

Third/Fourth Year
0. 5 Credit of Cognate Biology Courses
Choose from:
BIOC10H3 Cell Biology: Proteins from Life to Death
BIOC14H3 Genes, Environment and Behaviour
BIOC19H3 Animal Developmental Biology
BIOC21H3 Vertebrate Histology: Cells and Tissues
BIOC31H3 Plant Development and Biotechnology
BIOC40H3 Plant Physiology
BIOD37H3 Biology of Plant Stress

Fourth Year
0.5 Credit in Advanced Molecular Techniques
BIOD21H3 Advanced Molecular Biology Laboratory

0.5 Credit of D-level Research-Oriented "Cell & Molecular" Course Work
Choose from:
BIOD17H3 Seminars in Cellular Microbiology
BIOD19H3 Epigenetics in Health and Disease
BIOD22H3 Molecular Biology of the Stress Response
BIOD23H3 Special Topics in Cell Biology
BIOD25H3 Genomics
BIOD26H3 Fungal Biology and Pathogenesis
BIOD27H3 Molecular Endocrinology
BIOD29H3 Pathobiology of Human Disease
BIOD30H3 Plant Research and Biotechnology: Addressing Global Problems
BIOD95H3 Supervised Study in Biology
BIOD98Y3 Directed Research in Biology
Note: Any of these courses not used to satisfy this requirement can be used to fulfill the '0.5 Credit of Cognate Biology Courses.'

B. Work Term Requirements

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

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

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

New Completion Requirements:

Program Requirements

This program consists of 14.0 required credits plus two work-terms.

A. Course Requirements

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 I: Reactions and Mechanisms

1.0 Credit in Mathematics

Choose from:

[MATA29H3 Calculus I for the Life Sciences and MATA35H3 Calculus II for Biological Sciences] *or* [MATA30H3 Calculus I for Physical Sciences and MATA36H3 Calculus II for Physical Sciences]

1.0 Credit in Physics

[PHYA10H3 Introduction to Physics IA or PHYA11H3 Introduction to Physics IB]
[PHYA21H3 Introduction to Physics IIA or PHYA22H3 Introduction to Physics IIB]

0.5 Credit in Statistics

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

Second Year

3.0 Credits of Biology Core Courses

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

0.5 Credit of Biology Core Labs

BIOB12H3 Cell and Molecular Biology Laboratory

1.0 Credit of Organic Chemistry Courses

CHMB41H3 Organic Chemistry I
CHMB42H3 Organic Chemistry II

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

Third Year

3.0 Credits of Biology C-level Courses

BIOC12H3 Biochemistry I: Proteins and Enzymes
BIOC13H3 Biochemistry II: Bioenergetics and Metabolism
BIOC15H3 Genetics
BIOC17H3 Microbiology
BIOC23H3 Practical Approaches to Biochemistry
BIOC39H3 Immunology (can be completed in third or fourth year)

0.5 Credit in Computer Science

Choose from:
CSCA08H3 Introduction to Computer Science I (most appropriate course for computer science students)
CSCA20H3 Introduction to Programming (most appropriate course for non-computer science students)
PSCB57H3 Introduction to Scientific Computing

Third/Fourth Year

0. 5 Credit of Cognate Biology Courses

Choose from:
BIOC10H3 Cell Biology: Proteins from Life to Death
BIOC14H3 Genes, Environment and Behaviour
BIOC19H3 Animal Developmental Biology
BIOC21H3 Vertebrate Histology: Cells and Tissues
BIOC31H3 Plant Development and Biotechnology
BIOC40H3 Plant Physiology
BIOD37H3 Biology of Plant Stress

Fourth Year

0.5 Credit in Advanced Molecular Techniques

BIOD21H3 Advanced Molecular Biology Laboratory

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

Choose from:
BIOD17H3 Seminars in Cellular Microbiology
BIOD19H3 Epigenetics in Health and Disease
BIOD22H3 Molecular Biology of the Stress Response
BIOD23H3 Special Topics in Cell Biology
BIOD25H3 Genomics
BIOD26H3 Fungal Biology and Pathogenesis
BIOD27H3 Molecular Endocrinology
BIOD29H3 Pathobiology of Human Disease
BIOD30H3 Plant Research and Biotechnology: Addressing Global Problems
BIOD95H3 Supervised Study in Biology
BIOD98Y3 Directed Research in Biology

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

B. Work Term Requirements

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

To be eligible for their first work term, students must be in good standing in the program and have completed at least 10.0 credits, including BIOA01H3, BIOA02H3, CHMA10H3, CHMA11H3, [(MATA20H3) & (MATA21H3)] or [MATA29H3 & MATA35H3], or [MATA30H3 & 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.

Brief Description of the Proposal:

Add [MATA30H3 and MATA36H3] as an option to complete the 1.0 Credit in Mathematics under the First Year component. [MATA29H3 and MATA35H3] change from required to optional courses.

Rationale:

MATA29H3 (Calculus I for the Life Sciences) and MATA35H3 (Calculus II for Biological Sciences) are new introductory mathematics courses designed to meet the needs of Biology students. They have been added as an optional means through which students may complete the 1.0 credits in Mathematics component of the program.

Impact that the proposal may have on students or other academic units/divisions:

None

Consultation:

We have discussed this with our curriculum committee within the department and all support this change.
We have also consulted with the department of Computer and Mathematical Sciences regarding this change.
This change was approved by the Biological Sciences Curriculum Committee on September 7th, 2016.

Resource Implications:

None.

MAJOR PROGRAM IN CONSERVATION AND BIODIVERSITY (SCIENCE)

Current Completion Requirements:

Program Requirements
This program consists of 8.5 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

0.5 Credit in Mathematics or Statistics
Choose from:
MATA29H3 Calculus I for the Life Sciences
MATA30H3 Calculus I for Physical Sciences
STAB22H3 Statistics I
PSYB07H3 Data Analysis in Psychology

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
BIOB52H3 Ecology and Evolutionary Biology Laboratory

Third Year
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

1.0 Credit of Other C-level Courses
Choose from:
BIOC37H3 Plants: Life on the Edge
(BIOC38H3) Plants and Society
BIOC40H3 Plant Physiology
BIOC51H3 Tropical Biodiversity Field Course
BIOC52H3 Ecology Field Course
BIOC54H3 Animal Behaviour
BIOC58H3 Biological Consequences of Global Change
BIOC60H3 Winter Ecology
BIOC62H3 Role of Zoos in Conservation
BIOC63H3 Conservation Biology
BIOC65H3 Environmental Toxicology
(BIOC67H3) Inter-University Biology Field Course
EESC30H3 Environmental Microbiology

Fourth Year

0.5 Credit of D-level Courses

Choose from:
BIOD25H3 Genomics
BIOD26H3 Fungal Biology & Pathogenesis
BIOD33H3 Comparative Animal Physiology
BIOD43H3 Animal Movement and Exercise
BIOD45H3 Animal Communication
BIOD48H3 Ornithology
BIOD52H3 Special Topics in Biodiversity and Systematics
BIOD53H3 Special Topics in Behavioural Ecology
BIOD54H3 Applied Conservation Biology
BIOD59H3 Models in Ecology and Conservation
BIOD60H3 Spatial Ecology
BIOD62H3 Species and Speciation
BIOD66H3 Causes & Consequences of Biodiversity
BIOD67H3 Inter-University Biology Field Course
EESD15H3 Fundamentals of Site Remediation

New Completion Requirements:

Program Requirements

This program consists of 8.5 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

0.5 Credit in Mathematics or Statistics

Choose from:
MATA29H3 Calculus I for the Life Sciences
MATA30H3 Calculus I for Physical Sciences
STAB22H3 Statistics I
PSYB07H3 Data Analysis in Psychology

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

BIOB52H3 Ecology and Evolutionary Biology Laboratory

Third Year

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

1.0 Credit of Other C-level Courses

Choose from:
BIOC37H3 Plants: Life on the Edge
(BIOC38H3) Plants and Society
BIOC40H3 Plant Physiology
BIOC51H3 Tropical Biodiversity Field Course
BIOC52H3 Ecology Field Course
BIOC54H3 Animal Behaviour
BIOC58H3 Biological Consequences of Global Change
BIOC60H3 Winter Ecology
BIOC62H3 Role of Zoos in Conservation
BIOC63H3 Conservation Biology
BIOC65H3 Environmental Toxicology
(BIOC67H3) Inter-University Biology Field Course
EESC30H3 Environmental Microbiology

Fourth Year

0.5 Credit of D-level Courses

Choose from:
BIOD25H3 Genomics
BIOD26H3 Fungal Biology & Pathogenesis
BIOD33H3 Comparative Animal Physiology
BIOD43H3 Animal Movement and Exercise
BIOD45H3 Animal Communication
BIOD48H3 Ornithology
BIOD52H3 Special Topics in Biodiversity and Systematics
BIOD53H3 Special Topics in Behavioural Ecology
BIOD54H3 Applied Conservation Biology
BIOD59H3 Models in Ecology and Conservation
BIOD60H3 Spatial Ecology
BIOD62H3 Species and Speciation
BIOD66H3 Causes & Consequences of Biodiversity
BIOD67H3 Inter-University Biology Field Course
EESD15H3 Fundamentals of Site Remediation

Brief Description of the Proposal:

1. Add MATA30H3 Calculus I for Physical Sciences as an optional course to complete the 0.5 credits in Mathematics or Statistics under the First Year component.
2. Add BIOD59H3 (Models in Ecology and Conservation) as an optional course to complete the 0.5 Credit of D-level Courses bin under the Fourth Year component.

Rationale:

1. MATA30H3 is a suitable course to complete the 0.5 credit in Mathematics or Statistics.
2. BIOD59H3 is a new course that is a suitable option for completing the 0.5 Credit of D-level Courses. This course offers a unique opportunity for students to develop an understanding of modeling which is applicable to this program.

Impact that the proposal may have on students or other academic units/divisions:

None

Consultation:

We have discussed this with our curriculum committee within the department and all support this change.
We have also consulted with the department of Computer and Mathematical Sciences.

This change was approved by the Biological Sciences Curriculum Committee on September 7th, 2016.

Resource Implications:

None.

MAJOR PROGRAM IN BIOLOGY (SCIENCE)

Description

***Supervisor*: ~~Until June 30, 2016: M. Andrade; Effective July 1, 2016:~~ I. Stehlik *Email*: biology-major@utsc.utoronto.ca**

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.

The Major program in Biology (Science) cannot be combined with any other Major program offered by the Department of Biological Sciences.

~~**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.**~~

Current Completion Requirements:

Program Requirements

This program consists of 8.0 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

0.5 Credit in Mathematics or Statistics

Choose from:
MATA29H3 Calculus I for the Life Sciences
MATA30H3 Calculus I for 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)

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

Choose from:
BIOB12H3 Cell and Molecular Biology Laboratory
BIOB32H3 Animal Physiology Laboratory
BIOB33H3 Human Development and Anatomy Laboratory
BIOB52H3 Ecology and Evolutionary Biology Laboratory

Third Year

1.5 Credits of Additional C-level Biology Courses

Choose from: Any BIO C-level courses offered by the department.
Note: that NROC34H3 (Neuroethology), ~~EESC04H3 (Biodiversity and Biogeography) and EESC30H3 (Environmental Microbiology)~~ may also be used toward fulfilling this requirement.

Fourth Year

0.5 Credit of Additional D-Level Biology Courses

Choose from: Any BIO D-level courses offered by the department. **Note:** that this includes the Biology Supervised Studies and Directed Research courses (BIOD95H3, BIOD98Y3 & BIOD99Y3).

New Completion Requirements:

Program Requirements

This program consists of 8.0 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

0.5 Credit in Mathematics or Statistics

Choose from:
MATA29H3 Calculus I for the Life Sciences
MATA30H3 Calculus I for Physical Sciences
STAB22H3 Statistics I
PSYB07H3 Data Analysis in Psychology

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
Choose from:
BIOB12H3 Cell and Molecular Biology Laboratory
BIOB32H3 Animal Physiology Laboratory
BIOB33H3 Human Development and Anatomy Laboratory
BIOB52H3 Ecology and Evolutionary Biology Laboratory

Third Year
1.5 Credits of Additional C-level Biology Courses
Choose from: Any BIO C-level courses offered by the department.
Note: that NROC34H3 (Neuroethology) may also be used toward fulfilling this requirement.

Fourth Year
0.5 Credit of Additional D-Level Biology Courses
Choose from: Any BIO D-level courses offered by the department. **Note:** that this includes the Biology Supervised Studies and Directed Research courses (BIOD95H3, BIOD98Y3 & BIOD99Y3).

Brief Description of the Proposal:

1. Add MATA30H3 Calculus I for Physical Sciences as an optional course to complete the 0.5 credit in Mathematics under the First Year component.
2. Remove the note regarding EESC04H3 and EESC30H3 from the Fourth Year component.
3. Add note to description that the Major in Biology (Science) cannot be combined with any other Major program offered by the Department of Biological Sciences.

Rationale:

1. MATA30H3 has been added because it is a suitable optional course to complete the 0.5 credit in Mathematics or Statistics.
2. EESC04H3 and EESC30H3 have been removed from NOTE under the Third Year component because these courses have changed content significantly and have since been integrated into the Environmental Science programs.
3. The note that the Major Program in Biology (Science) cannot be combined with any other Major program offered by the Department of Biological Sciences" has been added to the description to make it clear to students they cannot combine it with any other Major programs offered by the Department of Biological Sciences.

Impact that the proposal may have on students or other academic units/divisions:

None

Consultation:

We have discussed this with our curriculum committee within the department and all support this change.
We have also consulted with the Department of Computer and Mathematical Sciences regarding this change.
This change was approved by the Biological Sciences Curriculum Committee on September 7th, 2016.

Resource Implications:

None.

SPECIALIST PROGRAM IN HUMAN BIOLOGY (SCIENCE)

Current Completion Requirements:

Program Requirements
This Program consists of 15.5 credits.

Required Courses and Suggested Course Sequence
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 of Mathematics
~~MATA29H3 Calculus I for the Life Sciences~~
~~MATA35H3 Calculus II for Biological Sciences~~
Choose from:
[MATA29H3 Calculus I for the Life Sciences and MATA35H3 Calculus II for Biological Sciences] *or*
[MATA30H3 Calculus I for Physical Sciences and MATA36H3 Calculus II for Physical Sciences]

1.0 Credit of Introductory Physics Courses
PHYA11H3 Introduction to Physics IB
PHYA22H3 Introduction to Physics IIB

1.0 Credit of Introductory Psychology Courses
PSYA01H3 Introductory Psychology: Part I
PSYA02H3 Introductory Psychology: Part II

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

1.0 Credit of Biology Core Labs
BIOB32H3 Animal Physiology Laboratory
BIOB33H3 Human Development and Anatomy Laboratory

1.0 Credit of Organic Chemistry Courses
CHMB41H3 Organic Chemistry I
CHMB42H3 Organic Chemistry II

Third/Fourth Years
2.0 Credits of C-level Biology Core Courses
BIOC15H3 Genetics
BIOC17H3 Microbiology
BIOC32H3 Human Physiology I
BIOC39H3 Immunology

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

1.0 Credit of D-level Biology Courses
Choose From:
BIOD17H3 Seminars in Cellular Microbiology
BIOD19H3 Epigenetics in Health and Disease
BIOD26H3 Fungal Biology and Pathogenesis
BIOD27H3 Molecular Endocrinology
BIOD29H3 Pathobiology of Human Disease
BIOD33H3 Comparative Animal Physiology
BIOD35H3 Sports Science
BIOD37H3 Biology of Plant Stress
BIOD43H3 Animal Movement and Exercise
BIOD59H3 Models in Ecology and Conservation
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

New Completion Requirements:

Program Requirements
This Program consists of 15.5 credits.

Required Courses and Suggested Course Sequence
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 of Mathematics
Choose one:
[MATA29H3 Calculus I for the Life Sciences and MATA35H3 Calculus II for Biological Sciences] *or*
[MATA30H3 Calculus I for Physical Sciences and MATA36H3 Calculus II for Physical Sciences]

1.0 Credit of Introductory Physics Courses
PHYA11H3 Introduction to Physics IB
PHYA22H3 Introduction to Physics IIB

1.0 Credit of Introductory Psychology Courses
PSYA01H3 Introductory Psychology: Part I
PSYA02H3 Introductory Psychology: Part II

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

1.0 Credit of Biology Core Labs
BIOB32H3 Animal Physiology Laboratory
BIOB33H3 Human Development and Anatomy Laboratory

1.0 Credit of Organic Chemistry Courses
CHMB41H3 Organic Chemistry I
CHMB42H3 Organic Chemistry II

Third/Fourth Years
2.0 Credits of C-level Biology Core Courses
BIOC15H3 Genetics
BIOC17H3 Microbiology
BIOC32H3 Human Physiology I
BIOC39H3 Immunology

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

1.0 Credit of D-level Biology Courses
Choose From:
BIOD17H3 Seminars in Cellular Microbiology
BIOD19H3 Epigenetics in Health and Disease
BIOD26H3 Fungal Biology and Pathogenesis
BIOD27H3 Molecular Endocrinology
BIOD29H3 Pathobiology of Human Disease
BIOD33H3 Comparative Animal Physiology
BIOD35H3 Sports Science
BIOD37H3 Biology of Plant Stress
BIOD43H3 Animal Movement and Exercise
BIOD59H3 Models in Ecology and Conservation
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

Brief Description of the Proposal:

1. Add [MATA30H3 and MATA36H3] as an option to complete the 1.0 Credit in Mathematics under the First Year component. [MATA29H3 and MATA35H3] change from required to optional courses.
2. Add BIOD59H3 as an optional course to bin of 1.0 credit of D-level Biology courses under the Third/Fourth Year component.

Rationale:

1. MATA29H3 (Calculus I for the Life Sciences) and MATA35H3 (Calculus II for Biological Sciences) are new introductory mathematics courses designed to meet the needs of Biology students. They have been added as an optional means through which students may complete the 1.0 credits in Mathematics component of the program.
2. BIOD59H3 (Models in Ecology and Conservation) is a new course that is an appropriate options for students to use to complete the 1.0 credit of D-level Biology Courses component of the program. This course offers a unique opportunity for students to develop an understanding of modeling which is applicable to this program.

Impact that the proposal may have on students or other academic units/divisions:

None

Consultation:

We have discussed this with our curriculum committee within the department and all support this change.
We have also consulted with the Department of Computer and Mathematical Sciences regarding this change.
This change was approved by the Biological Sciences Curriculum Committee on September 7th, 2016.

Resource Implications:

None

SPECIALIST PROGRAM IN INTEGRATIVE BIOLOGY (SCIENCE)

Current Completion Requirements:

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.

A. Required Courses

First Year

1.0 Credit of Introductory Biology Courses

BIOA01H3 Life on Earth: Unifying Principles
BIOA02H3 Life on Earth: Form, Function and Interactions

1.0 Credit of Introductory Chemistry Courses

CHMA10H3 Introductory Chemistry I: Structure and Bonding
CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms

1.0 Credit in Mathematics

~~MATA29H3 Calculus I for the Life Sciences~~
~~MATA35H3 Calculus II for Biological Sciences~~
Choose from:
[MATA29H3 Calculus I for the Life Sciences and MATA35H3 Calculus II for Biological Sciences] *or*
[MATA30H3 Calculus I for Physical Sciences and MATA36H3 Calculus II for Physical Sciences]

0.5 Credit in Physics

Choose from:
PHYA10H3 Introduction to Physics IA
PHYA11H3 Introduction to Physics IB

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)

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

Choose from:
BIOB12H3 Cell and Molecular Biology Laboratory
BIOB32H3 Animal Physiology Laboratory
BIOB33H3 Human Development and Anatomy Laboratory
BIOB52H3 Ecology and Evolutionary Biology Laboratory

0.5 Credit in Statistics

Choose from:
STAB22H3 Statistics I
PSYB07H3 Data Analysis in Psychology

Third Year

1.5 Credits of Biology Foundation Courses

BIOC15H3 Genetics
BIOC17H3 Microbiology
BIOC54H3 Animal Behaviour

Third/Fourth Year

0.5 Credit of Advanced Courses in Physiology, Biochemistry and Neurobiology

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

0.5 Credit of Advanced Courses in Ecology and Conservation

Choose from:
BIOC50H3 Macroevolution
BIOC51H3 Tropical Biodiversity Field Course
BIOC52H3 Ecology Field Course
BIOC58H3 Biological Consequences of Global Change
BIOC59H3 Advanced Population Ecology
BIOC61H3 Community Ecology and Environmental Biology
BIOC62H3 Role of Zoos in Conservation
BIOC63H3 Conservation Biology
(BIOC67H3) Inter-University Biology Field Course
EESC04H3 Biodiversity and Biogeography
BIOD52H3 Special Topics in Biodiversity and Systematics
BIOD54H3 Applied Conservation Biology
BIOD59H3 Models in Ecology and Conservation
BIOD60H3 Spatial Ecology
BIOD62H3 Species and Speciation
BIOD66H3 Causes and Consequences of Diversity
BIOD67H3 Inter-University Biology Field Course

0.5 Credit of Advanced Courses in Genes and Development

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

0.5 Credit of Advanced Courses in Organismal Biology

Choose from:
BIOC21H3 Vertebrate Histology: Cells and Tissues
ANTD22H3 Theory and Methodology of Primatology
ANTC68H3 Deconstructing Epidemics
EESC30H3 Environmental Microbiology
BIOC37H3 Plants: Life on the Edge
(BIOC38H3) Plants and Society
BIOC60H3 Winter Ecology
BIOD17H3 Seminars in Cellular Microbiology
BIOD26H3 Fungal Biology and Pathogenesis
BIOD29H3 Pathobiology of Human Disease
BIOD33H3 Comparative Animal Physiology
BIOD37H3 Biology of Plant Stress
BIOD45H3 Animal Communication
BIOD48H3 Ornithology
BIOD53H3 Special Topics in Behavioural Ecology

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

Choose from:
Any BIO (or formerly BGY) C- or D-level courses offered by the department.
Note: this includes the Biology Team Research, Supervised Studies and Directed Research courses (BIOC99H3, BIOD95H3, BIOD98Y3 and BIOD99Y3).
Note: NROC34H3 (Neuroethology), ~~EESC04H3 (Biodiversity and Biogeography) and EESC30H3 (Environmental Microbiology) may also be used toward fulfilling this requirement,~~ if not already used toward fulfilling one of the other requirements above.

B. Routes to Specialization (optional)

A key advantage of the specialist program in Integrative Biology is the ability for students to readily specialize in areas of particular interest. Please note that students are not required to follow any of these suggested routes. They are provided for guidance only.

For students with a particular interest in "The Impact of Environment and Climate Change on the Biology of Ecosystems", you should consider including some or all of the following courses in your program: BIOB52H3 (Ecology and Evolutionary Biology Lab), BIOC52H3 (Ecology Field Course), BIOC58H3 (Biological Consequences of Global Change), BIOC59H3 (Advanced Population Ecology), BIOC60H3 (Winter Ecology), BIOC61H3 (Community Ecology and Environmental Biology) and (BIOC67H3) (Inter-University Biology Field Course).

- For students with a particular interest in "The Conservation and Biodiversity of Organisms", you should consider including some or all of the following courses in your program: BIOC51H3 (Tropical Biodiversity Field Course), BIOC62H3 (Role of Zoos in Conservation), BIOC63H3 (Conservation Biology), BIOD48H3 (Ornithology), BIOD52H3 (Special Topics in Biodiversity and Systematics), BIOD54H3 (Applied Conservation Ecology), BIOD60H3 (Spatial Ecology) & BIOD66H3 (Causes and Consequences of Biodiversity).

For students with a particular interest in "Animal Physiology", you should consider including some or all of the following courses in your program: BIOB32H3 (Animal Physiology Laboratory), BIOC32H3 (Human Physiology I), BIOC33H3 or BIOC34H3 (Human Physiology II), BIOD29H3 (Pathobiology of Human Disease), BIOD33H3 (Comparative Animal Physiology), & BIOD43H3 (Animal Movement and Exercise).

For students with a particular interest in "Ecophysiology", you should consider including some or all of the following courses in your program: BIOC65H3 (Environmental Toxicology), EESC30H3 (Environmental Microbiology), BIOD33H3 (Comparative Animal Physiology) & BIOD37H3 (Biology of Plant Stress).

For students with a particular interest in "Infection and Disease" or "clinically-oriented topics", you should consider including some or all of the following courses in your program: ANTC67H3 (Foundations in Epidemiology) or ANTC68H3 (Deconstructing Epidemics), BIOB33H3 (Human Development and Anatomy), BIOC21H3 (Vertebrate Histology: Cells and Tissues), BIOC33H3 or BIOC34H3 (Human Physiology II), BIOC39H3 (Immunology), BIOD17H3 (Seminars in Cellular Microbiology), BIOD25H3 (Genomics), BIOD26H3 (Fungal Biology and Pathogenesis), BIOD29H3 (Pathobiology of Human Disease) & BIOD65H3 (Pathologies of the Nervous System).

For students with a particular interest in "Plant and Microbial Biology", you should consider including some or all of the following courses in your program: BIOC31H3 (Plant Development and Biotechnology), EESC30H3 (Environmental Microbiology), BIOD17H3 (Seminars in Cellular Microbiology) and BIOD37H3 (Biology of Plant Stress).

For students with a particular interest in "Behavioural Biology" you should consider including some or all of the following courses in your program: NROC34H3 (Neuroethology), BIOD45H3 (Animal Communication), BIOD53H3 (Special Topics in Behavioural Ecology) & NROC61H3 (Learning and Motivation).

For students with a particular interest in "Behavioural Genetics", you should consider including some or all of the following courses in your program: BIOC16H3 (Evolutionary Genetics and Genomics), NROC34H3 (Neuroethology), BIOD21H3 (Advanced Molecular Biology Laboratory), BIOD22H3 (Molecular Biology of the Stress Response), BIOD23H3 (Special Topics in Cell Biology), BIOD25H3 (Genomics), BIOD45H3 (Animal Communication), and BIOD53H3 (Special Topics in Behavioural Ecology).

- For students with a particular interest in "The Evolution of Development" (a.k.a. "evo/devo"), you should consider including some or all of the following courses in your program: BIOC12H3 (Biochemistry I: Proteins and Enzymes), BIOC13H3 (Biochemistry II: Bioenergetics and Metabolism), BIOC16H3 (Evolutionary Genetics and Genomics), BIOC19H3 (Animal Developmental Biology), BIOC23H3 (Practical Approaches to Biochemistry), BIOC31H3 (Plant Development and Biotechnology), BIOC33H3 (Human Physiology II: Lecture and Laboratory) or BIOC34H3 (Human Physiology II: Lecture), BIOD21H3 (Advanced Molecular Biology Laboratory), BIOD22H3 (Molecular Biology of the Stress Response), BIOD23H3 (Special Topics in Cell Biology), BIOD35H3 (Sports Science) and BIOD25H3 (Genomics).

New Completion Requirements:

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.

A. Required Courses

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:
[MATA29H3 Calculus I for the Life Sciences and MATA35H3 Calculus II for Biological Sciences] *or*
[MATA30H3 Calculus I for Physical Sciences and MATA36H3 Calculus II for Physical Sciences]

0.5 Credit in Physics
Choose from:
PHYA10H3 Introduction to Physics IA
PHYA11H3 Introduction to Physics IB

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)

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
Choose from:
BIOB12H3 Cell and Molecular Biology Laboratory
BIOB32H3 Animal Physiology Laboratory
BIOB33H3 Human Development and Anatomy Laboratory
BIOB52H3 Ecology and Evolutionary Biology Laboratory

0.5 Credit in Statistics
Choose from:
STAB22H3 Statistics I
PSYB07H3 Data Analysis in Psychology

Third Year
1.5 Credits of Biology Foundation Courses
BIOC15H3 Genetics
BIOC17H3 Microbiology
BIOC54H3 Animal Behaviour

Third/Fourth Year

0.5 Credit of Advanced Courses in Physiology, Biochemistry and Neurobiology

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

0.5 Credit of Advanced Courses in Ecology and Conservation

Choose from:
BIOC50H3 Macroevolution
BIOC51H3 Tropical Biodiversity Field Course
BIOC52H3 Ecology Field Course
BIOC58H3 Biological Consequences of Global Change
BIOC59H3 Advanced Population Ecology
BIOC61H3 Community Ecology and Environmental Biology
BIOC62H3 Role of Zoos in Conservation
BIOC63H3 Conservation Biology
(BIOC67H3) Inter-University Biology Field Course
EESC04H3 Biodiversity and Biogeography
BIOD52H3 Special Topics in Biodiversity and Systematics
BIOD54H3 Applied Conservation Biology
BIOD59H3 Models in Ecology and Conservation
BIOD60H3 Spatial Ecology
BIOD62H3 Species and Speciation
BIOD66H3 Causes and Consequences of Diversity
BIOD67H3 Inter-University Biology Field Course

0.5 Credit of Advanced Courses in Genes and Development

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

0.5 Credit of Advanced Courses in Organismal Biology

Choose from:

BIOC21H3 Vertebrate Histology: Cells and Tissues
ANTD22H3 Theory and Methodology of Primatology
ANTC68H3 Deconstructing Epidemics
EESC30H3 Environmental Microbiology
BIOC37H3 Plants: Life on the Edge
(BIOC38H3) Plants and Society
BIOC60H3 Winter Ecology
BIOD17H3 Seminars in Cellular Microbiology
BIOD26H3 Fungal Biology and Pathogenesis
BIOD29H3 Pathobiology of Human Disease
BIOD33H3 Comparative Animal Physiology
BIOD37H3 Biology of Plant Stress
BIOD45H3 Animal Communication
BIOD48H3 Ornithology
BIOD53H3 Special Topics in Behavioural Ecology

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

Choose from:

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

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

Note: NROC34H3 (Neuroethology) 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.

(a): 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) BIOD59H3 (Models in Ecology and Conservation) and (BIOC67H3) (Inter-University Biology Field Course).

(b): For students with a particular interest in "The Conservation and Biodiversity of Organisms", you should consider including some or all of the following courses in your program: BIOC51H3 (Tropical Biodiversity Field Course), BIOC62H3 (Role of Zoos in Conservation), BIOC63H3 (Conservation Biology), BIOD48H3 (Ornithology), BIOD52H3 (Special Topics in Biodiversity and Systematics), BIOD54H3 (Applied Conservation Ecology), BIOD60H3 (Spatial Ecology) & BIOD66H3 (Causes and Consequences of Biodiversity).

(c): 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).

(d): 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), BIOD33H3 (Comparative Animal Physiology) & BIOD37H3 (Biology of Plant Stress).

(e): 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).

(f): 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), BIOD17H3 (Seminars in Cellular Microbiology) and BIOD37H3 (Biology of Plant Stress).

(g): 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).

(h): 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).

(i): For students with a particular interest in "The Evolution of Development" (a.k.a. "evo/devo"), you should consider including some or all of the following courses in your program: BIOC12H3 (Biochemistry I: Proteins and Enzymes), BIOC13H3 (Biochemistry II: Bioenergetics and Metabolism), BIOC16H3 (Evolutionary Genetics and Genomics), BIOC19H3 (Animal Developmental Biology), BIOC23H3 (Practical Approaches to Biochemistry), BIOC31H3 (Plant Development and Biotechnology), BIOC33H3 (Human Physiology II: Lecture and Laboratory) or BIOC34H3 (Human Physiology II: Lecture), BIOD21H3 (Advanced Molecular Biology Laboratory), BIOD22H3 (Molecular Biology of the Stress Response), BIOD23H3 (Special Topics in Cell Biology), BIOD35H3 (Sports Science) and BIOD25H3 (Genomics).

Brief Description of the Proposal:

1. Add [MATA30H3 and MATA36H3] as an option to complete the 1.0 Credit in Mathematics under the First Year component. [MATA29H3 and MATA35H3] change from required to optional courses.
2. Add BIOD59H3 as an optional course to 0.5 Credit of Advanced Courses in Ecology and Conservation under the Third/Fourth Year component.
3. Remove EESC04H3 (Biodiversity and Biogeography) and EESC30H3 (Environmental Microbiology) as options under the 3.0 credits in additional C- or D-level Biology courses in the Third/Fourth Year component.

Rationale:

1. MATA29H3 (Calculus I for the Life Sciences) and MATA35H3 (Calculus II for Biological Sciences) are new introductory mathematics courses designed to meet the needs of Biology students. They have been added as an optional means through which students may complete the 1.0 credits in Mathematics component of the program.
2. BIOD59H3 (Models in Ecology and Conservation) is a new course that is an appropriate options for students to use to complete the 0.5 credit of Advanced Courses in Ecology and Conservation component of the program. This course offers a unique opportunity for students to develop an understanding of modeling which is applicable to this program.
3. Historically EESC04H3 and EESC30H3 were taught by biology faculty and had Biology codes. These courses have since changed content significantly and have been integrated into the Environmental Science programs.

Impact that the proposal may have on students or other academic units/divisions:

None.

Consultation:

We have discussed this with our curriculum committee within the department and all support this change.
We have also consulted with the department of Computer and Mathematical Sciences regarding this change.
These changes were approved by the Biological Sciences Curriculum Committee on September 7th, 2016.

Resource Implications:

None.

MAJOR PROGRAM IN MOLECULAR BIOLOGY, IMMUNOLOGY AND DISEASE (SCIENCE)

Current Completion Requirements:

Program Requirements

This program consists of 8.0 credits. To complete their degree, students shall combine this Major program with another Major program, or two Minor programs (see section entitled Combining Majors in Biology in the preamble to the description of Biological Sciences programs). When selecting their course of studies, students should refer to the University of Toronto guidelines for program breadth and depth (see the Degrees section of this *Calendar*).

Required Courses and Suggested Sequence:

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

0.5 Credit in Mathematics or Statistics
Choose from:
MATA29H3 Calculus I for the Life Sciences
MATA30H3 Calculus I for Physical Sciences
STAB22H3 Statistics I
PSYB07H3 Data Analysis in Psychology

Second Year

2.5 Credits of Biology Core Courses
BIOB10H3 Cell Biology
BIOB11H3 Molecular Aspects of Cellular and Genetic Processes
BIOB34H3 Animal Physiology
BIOB50H3 Ecology
BIOB51H3 Evolutionary Biology

0.5 Credit in a Biology Core Lab
Choose From:
BIOB12H3 Cell and Molecular Biology Laboratory
BIOB32H3 Animal Physiology Laboratory
BIOB33H3 Human Development and Anatomy

Third/Fourth Years

1.0 Credit of Required C-level Courses
BIOC17H3 Microbiology
BIOC39H3 Immunology

1.0 Credit of Additional C-level Courses
Choose from:
BIOC10H3 Cell Biology: Proteins from Life to Death
BIOC12H3 Biochemistry I: Proteins & Enzymes
BIOC13H3 Biochemistry II: Bioenergetics and Metabolism
BIOC14H3 Genes, Environment and Behaviour
BIOC15H3 Genetics
BIOC19H3 Animal Developmental Biology
BIOC31H3 Plant Development and Biotechnology

0.5 credit of Additional D-level Biology Courses
Choose from:
BIOD17H3 Seminars in Cellular Microbiology
BIOD19H3 Epigenetics in Health and Disease
BIOD23H3 Special Topics in Cell Biology
BIOD25H3 Genomics
BIOD26H3 Fungal Biology and Pathogenesis
BIOD27H3 Molecular Endocrinology
BIOD29H3 Pathobiology of Human Disease

New Completion Requirements:

Program Requirements
This program consists of 8.0 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

0.5 Credit in Mathematics or Statistics
Choose from:
MATA29H3 Calculus I for the Life Sciences
MATA30H3 Calculus I for Physical Sciences
STAB22H3 Statistics I
PSYB07H3 Data Analysis in Psychology

Second Year
2.5 Credits of Biology Core Courses
BIOB10H3 Cell Biology
BIOB11H3 Molecular Aspects of Cellular and Genetic Processes
BIOB34H3 Animal Physiology
BIOB50H3 Ecology
BIOB51H3 Evolutionary Biology

0.5 Credit in a Biology Core Lab
Choose From:
BIOB12H3 Cell and Molecular Biology Laboratory
BIOB32H3 Animal Physiology Laboratory
BIOB33H3 Human Development and Anatomy

Third/Fourth Years
1.0 Credit of Required C-level Courses
BIOC17H3 Microbiology
BIOC39H3 Immunology

1.0 Credit of Additional C-level Courses
Choose from:
BIOC10H3 Cell Biology: Proteins from Life to Death
BIOC12H3 Biochemistry I: Proteins & Enzymes
BIOC13H3 Biochemistry II: Bioenergetics and Metabolism
BIOC14H3 Genes, Environment and Behaviour
BIOC15H3 Genetics
BIOC19H3 Animal Developmental Biology
BIOC31H3 Plant Development and Biotechnology

0.5 credit of Additional D-level Biology Courses
Choose from:
BIOD17H3 Seminars in Cellular Microbiology
BIOD19H3 Epigenetics in Health and Disease
BIOD23H3 Special Topics in Cell Biology
BIOD25H3 Genomics
BIOD26H3 Fungal Biology and Pathogenesis
BIOD27H3 Molecular Endocrinology
BIOD29H3 Pathobiology of Human Disease

Brief Description of the Proposal:

1. Add MATA30H3 Calculus I for Physical Sciences as an optional course in the 0.5 credit in Mathematics or Statistics under the First Year component.

Rationale:

1. To improve student access to a variety of programs, MATA30H3 has been added as an alternate to complete the 0.5 credit in Mathematics or Statistics under the First Year component.

Impact that the proposal may have on students or other academic units/divisions:

None.

Consultation:

We have discussed this with our curriculum committee within the department and all support this change.
We have also consulted with the Department of Computer and Mathematical Sciences regarding this change.
This change was approved by the Biological Sciences Curriculum Committee on September 7th, 2016.

Resource Implications:

None.

SPECIALIST PROGRAM IN MOLECULAR BIOLOGY AND BIOTECHNOLOGY (SCIENCE)

Current Completion Requirements:

Program Requirements

This program consists of 14.0 required credits.

First Year
1.0 Credit of Introductory Biology Courses
BIOA01H3 Life on Earth: Unifying Principles
BIOA02H3 Life on Earth: Form, Function and Interactions

1.0 Credit of Introductory Chemistry Courses
CHMA10H3 Introductory Chemistry I: Structure and Bonding
CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms

1.0 Credit in Mathematics
~~MATA29H3 Calculus I for the Life Sciences~~
~~MATA35H3 Calculus II for Biological Sciences~~
Choose from:
[MATA29H3 Calculus I for the Life Sciences and MATA35H3 Calculus II for Biological Sciences] *or*
[MATA30H3 Calculus I for Physical Sciences and MATA36H3 Calculus II for Physical Sciences

1.0 Credit in Physics
Choose 0.5 credit from:
PHYA10H3 Introduction to Physics IA
PHYA11H3 Introduction to Physics IB

Choose 0.5 credit from:
PHYA21H3 Introduction to Physics IIA
PHYA22H3 Introduction to Physics IIB

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

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

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
BIOC31H3 Plant Development and Biotechnology
BIOC40H3 Plant Physiology
BIOD37H3 Biology of Plant Stress

Fourth Year

0.5 Credit in Advanced Molecular Techniques

BIOD21H3 Advanced Molecular Biology Laboratory

0.5 credit of D-level Research-oriented "Cell & Molecular" Course Work

Choose from:
BIOD17H3 Seminars in Cellular Microbiology
BIOD19H3 Epigenetics in Health and Disease
BIOD22H3 Molecular Biology of the Stress Response
BIOD23H3 Special Topics in Cell Biology
BIOD25H3 Genomics
BIOD26H3 Fungal Biology and Pathogenesis
BIOD27H3 Molecular Endocrinology
BIOD29H3 Pathobiology of Human Disease
BIOD30H3 Plant Research and Biotechnology: Addressing Global Problems
BIOD95H3 Supervised Study in Biology
BIOD98Y3 Directed Research in Biology

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

New Completion Requirements:

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:
[MATA29H3 Calculus I for the Life Sciences and MATA35H3 Calculus II for Biological Sciences] *or*
[MATA30H3 Calculus I for Physical Sciences and MATA36H3 Calculus II for Physical Sciences]

1.0 Credit in Physics

[PHYA10H3 Introduction to Physics IA or PHYA11H3 Introduction to Physics IB]
[PHYA21H3 Introduction to Physics IIA or 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

Third Year

3.0 Credits of Biology C-level Courses

BIOC12H3 Biochemistry I: Proteins & Enzymes
BIOC13H3 Biochemistry II: Bioenergetics and Metabolism
BIOC15H3 Genetics
BIOC17H3 Microbiology
BIOC23H3 Practical Approaches to Biochemistry
BIOC39H3 Immunology (can be completed in third or fourth year)

0.5 Credit in Computer Science

Choose from:
CSCA08H3 Introduction to Computer Science I (most appropriate course for computer science students)
CSCA20H3 Introduction to Programming (most appropriate course for non-computer science students)
PSCB57H3 Introduction to Scientific Computing
(computer science could also be taken in an earlier year)

Third/Fourth Year

0.5 Credit of Cognate Biology Courses

Choose from:
BIOC10H3 Cell Biology: Proteins from Life to Death
BIOC14H3 Genes, Environment and Behaviour
BIOC19H3 Animal Developmental Biology
BIOC21H3 Vertebrate Histology: Cells and Tissues
BIOC31H3 Plant Development and Biotechnology
BIOC40H3 Plant Physiology
BIOD37H3 Biology of Plant Stress

Fourth Year

0.5 Credit in Advanced Molecular Techniques

BIOD21H3 Advanced Molecular Biology Laboratory

0.5 credit of D-level Research-oriented "Cell & Molecular" Course Work

Choose from:
BIOD17H3 Seminars in Cellular Microbiology
BIOD19H3 Epigenetics in Health and Disease
BIOD22H3 Molecular Biology of the Stress Response
BIOD23H3 Special Topics in Cell Biology
BIOD25H3 Genomics
BIOD26H3 Fungal Biology and Pathogenesis
BIOD27H3 Molecular Endocrinology
BIOD29H3 Pathobiology of Human Disease
BIOD30H3 Plant Research and Biotechnology: Addressing Global Problems
BIOD95H3 Supervised Study in Biology

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

Brief Description of the Proposal:

Add [MATA30H3 and MATA36H3] as an option to complete the 1.0 Credit in Mathematics under the First Year component. [MATA29H3 and MATA35H3] change from required to optional courses.

Rationale:

MATA29H3 (Calculus I for the Life Sciences) and MATA35H3 (Calculus II for Biological Sciences) are new introductory mathematics courses designed to meet the needs of Biology students. They have been added as an optional means through which students may complete the 1.0 credits in Mathematics component of the program.

Impact that the proposal may have on students or other academic units/divisions:

None

Consultation:

We have discussed this with our departmental curriculum committee and all support this change.
We have also consulted with the department of Computer and Mathematical Sciences regarding this change.
This change was approved by the Biological Sciences Curriculum Committee on September 7th, 2016.

Resource Implications:

None.

MAJOR PROGRAM IN HUMAN BIOLOGY (SCIENCE)

Current Completion Requirements:

Program Requirements
This program consists of 8.5 credits.

Required Courses and Suggested Course Sequence

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 in Introductory Chemistry Courses
CHMA10H3 Introductory Chemistry I: Structure and Bonding
CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms

1.0 Credit in Introductory Psychology Courses
PSYA01H3 Introductory Psychology: Part I
PSYA02H3 Introductory Psychology: Part II

0.5 Credit in Mathematics or Statistics
Choose From:
MATA29H3 Calculus I for the Life Sciences
MATA30H3 Calculus I for Physical Sciences
STAB22H3 Statistics I
PSYB07H3 Data Analysis in Psychology

Second Year

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

0.5 Credit in a Biology Core Lab

Choose From:
BIOB32H3 Animal Physiology Laboratory
BIOB33H3 Human Development and Anatomy

Third/Fourth Years

1.5 Credits of Additional C-Level Courses

Choose From:
BIOC10H3 Cell Biology: Proteins from Life to Death
BIOC14H3 Genes, Environment and Behaviour
BIOC15H3 Genetics
BIOC16H3 Evolutionary Genetics and Genomics
BIOC17H3 Microbiology
BIOC19H3 Animal Developmental Biology
BIOC21H3 Vertebrate Histology: Cells and Tissues
BIOC32H3 Human Physiology I
[BIOC33H3 Human Physiology II: Lecture and Laboratory or BIOC34H3 Human Physiology II: Lecture]
BIOC39H3 Immunology
BIOC58H3 Biological Consequences of Global Change
BIOC65H3 Environmental Toxicology
NROC61H3 Learning and Motivation
NROC64H3 Sensorimotor Systems
NROC69H3 Synaptic Organisation and Physiology of the Brain

0.5 Credit of Additional D-Level Biology Courses

Choose From:
BIOD08H3 Theoretical Neuroscience
BIOD17H3 Seminars in Cellular Microbiology
BIOD19H3 Epigenetics in Health and Disease
BIOD26H3 Fungal Biology and Pathogenesis
BIOD29H3 Pathobiology of Human Disease
BIOD33H3 Comparative Animal Physiology
BIOD35H3 Sports Science
BIOD43H3 Animal Movement and Exercise
BIOD59H3 Models in Ecology and Conservation
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

New Completion Requirements:

Program Requirements:

This program consists of 8.5 credits.

Required Courses and Suggested Course Sequence

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 in Introductory Chemistry Courses

CHMA10H3 Introductory Chemistry I: Structure and Bonding
CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms

1.0 Credit in Introductory Psychology Courses

PSYA01H3 Introductory Psychology: Part I
PSYA02H3 Introductory Psychology: Part II

0.5 Credit in Mathematics or Statistics

Choose From:
MATA29H3 Calculus I for the Life Sciences
MATA30H3 Calculus I for Physical Sciences
STAB22H3 Statistics I
PSYB07H3 Data Analysis in Psychology

Second Year

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

0.5 Credit in a Biology Core Lab

Choose From:
BIOB32H3 Animal Physiology Laboratory
BIOB33H3 Human Development and Anatomy

Third/Fourth Years

1.5 Credits of Additional C-Level Courses

Choose From:
BIOC10H3 Cell Biology: Proteins from Life to Death
BIOC14H3 Genes, Environment and Behaviour
BIOC15H3 Genetics
BIOC16H3 Evolutionary Genetics and Genomics
BIOC17H3 Microbiology
BIOC19H3 Animal Developmental Biology
BIOC21H3 Vertebrate Histology: Cells and Tissues
BIOC32H3 Human Physiology I
[BIOC33H3 Human Physiology II: Lecture and Laboratory or BIOC34H3 Human Physiology II: Lecture]
BIOC39H3 Immunology
BIOC58H3 Biological Consequences of Global Change
BIOC65H3 Environmental Toxicology
NROC61H3 Learning and Motivation
NROC64H3 Sensorimotor Systems
NROC69H3 Synaptic Organisation and Physiology of the Brain

0.5 Credit of Additional D-Level Biology Courses

Choose From:
BIOD08H3 Theoretical Neuroscience
BIOD17H3 Seminars in Cellular Microbiology
BIOD19H3 Epigenetics in Health and Disease
BIOD26H3 Fungal Biology and Pathogenesis

BIOD33H3 Comparative Animal Physiology
BIOD35H3 Sports Science
BIOD43H3 Animal Movement and Exercise
BIOD59H3 Models in Ecology and Conservation
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

Brief Description of the Proposal:

1. Add MATA30H3 Calculus I for Physical Sciences as an optional course to complete the 0.5 credit in Mathematics or Statistics under the First Year component.
2. Add BIOD59H3 (Models in Ecology and Conservation) to the 0.5 Credit of Additional D-level Biology Courses bin under the Third/Fourth Years component.

Rationale:

1. To improve student access to a variety of programs, MATA30H3 as an alternate course that can be used to complete the 0.5 credit in Mathematics or Statistics requirement.
2. BIOD59H3 (Models in Ecology and Conservation) is a new course that is a suitable option to complete the 0.5 Credit of Additional D-level Biology Courses bin. This course offers a unique opportunity for students to develop an understanding of modeling which is applicable to this program.

Impact that the proposal may have on students or other academic units/divisions:

None.

Consultation:

We have discussed this with our curriculum committee within the department and all support this change.
We have also consulted with the Department of Computer and Mathematical Sciences regarding this change.
This change was approved by the Biological Sciences Curriculum Committee on September 7th, 2016.

Resource Implications:

None.

MINOR PROGRAM IN BIOLOGY (SCIENCE)

Description
***Supervisor*: ~~Until June 30, 2016: M. Andrade; Effective July 1, 2016:~~ I. Stehlik *Email*: ~~biology-minor@utsc.utoronto.ca~~**
***Email*: biology-minor@utsc.utoronto.ca**

The Minor in Biology (Science) cannot be combined with any Major or Specialist programs offered by the Department of Biological Sciences.

Current Completion Requirements:

Program Requirements
~~This program must include one credit of the introductory biology courses (BIOA01H3 & BIOA02H3) plus 3.0 other credits in Biology, of which at least one credit must be at the C- or D-level.~~
~~**Note**: that NROC34H3 (Neuroethology), EESC04H3 (Biodiversity and Biogeography) and EESC30H3 (Environmental Microbiology) may also be used toward fulfilling this requirement.~~

Students are required to complete a total of 4.0 credits.

1. 1.0 credit of Introductory Biology courses:
BIOA01H3 Life on Earth: Unifying Principles
BIOA02H3 Life on Earth: Form, Function and Interactions

2. 3.0 credits in Biology*, of which at least one credit must be at the C- or D-level.
**NROC34H3 may be used toward fulfilling this requirement.
BIOA11H3 **may not be used towards fulfilling this requirement.

New Completion Requirements:

Program Requirements
Students are required to complete a total of 4.0 credits.

1. 1.0 credit of Introductory Biology courses:
BIOA01H3 Life on Earth: Unifying Principles
BIOA02H3 Life on Earth: Form, Function and Interactions

2. 3.0 credits in Biology*, of which at least one credit must be at the C- or D-level.
**NROC34H3 may be used toward fulfilling this requirement.
BIOA11H3 **may not be used towards fulfilling this requirement.

Brief Description of the Proposal:

All changes are editorial:
1. The description has been updated to clarify that the Minor cannot be combined with any Major or Specialist programs offered by the Department of Biological Sciences
2. The note regarding the completion of 3.0 credits in Biology to remove EESC04H3 and EESC30H3; it adds that BIOA11H3 cannot be used to complete the requirement

Rationale:

1. The Minor in Biology cannot be combined with any other Major or Specialist programs offered by the Department because there is too much overlap among course requirements.
2. EESC04H3 and EESC30H3 have been removed as options to complete component 2 because their content has changed significantly and they are no longer suitable; BIOA11H3 has been added a course that cannot be used to complete component 2 because it is preparatory for admission into our introductory biology courses, for those students who do not have grade 12 biology, it cannot be used to fulfill program requirements.

Impact that the proposal may have on students or other academic units/divisions:

None.

Consultation:

We have discussed this with the departmental curriculum committee and all support this change.
This change was approved by the Biological Sciences Curriculum Committee on September 7th, 2016.

Resource Implications:

None.

SPECIALIST PROGRAM IN CONSERVATION AND BIODIVERSITY (SCIENCE)

Current Completion Requirements:

Program Requirements

This program consists of 14.5 required credits.

A. Required Courses

First Year

1.0 Credit of Introductory Biology Courses

BIOA01H3 Life on Earth: Unifying Principles
BIOA02H3 Life on Earth: Form, Function and Interactions

1.0 Credit of Introductory Chemistry Courses

CHMA10H3 Introductory Chemistry I: Structure and Bonding
CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms

1.0 Credit in Mathematics

~~MATA29H3 Calculus I for the Life Sciences~~
~~MATA35H3 Calculus II for Biological Sciences~~
Choose from:
[MATA29H3 Calculus I for the Life Sciences and MATA35H3 Calculus II for Biological Sciences] *or*
[MATA30H3 Calculus I for Physical Sciences and MATA36H3 Calculus II for Physical Sciences]

0.5 Credit in Physics

Choose from:
PHYA10H3 Introduction to Physics IA
PHYA11H3 Introduction to Physics IB

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)

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

BIOB52H3 Ecology and Evolutionary Biology Laboratory

0.5 Credit in Statistics

Choose from:
STAB22H3 Statistics I
PSYB07H3 Data Analysis in Psychology

Third Year

2.0 Credits of C-level Ecology and Evolution Foundation Courses

BIOC16H3 Evolutionary Genetics and Genomics
BIOC50H3 Macroevolution
BIOC59H3 Advanced Population Ecology
BIOC61H3 Community Ecology and Environmental Biology

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

Bin 1: C- & D-level Ecology and Evolution Courses
Choose from:
BIOC51H3 Tropical Biodiversity Field Course
BIOC52H3 Ecology Field Course
BIOC58H3 Biological Consequences of Global Change
BIOC60H3 Winter Ecology
BIOC63H3 Conservation Biology
BIOC65H3 Environmental Toxicology
(BIOC67H3) Inter-University Biology Field Course
BIOD25H3 Genomics
BIOD52H3 Special Topics in Biodiversity and Systematics
BIOD54H3 Applied Conservation Biology
BIOD59H3 Models in Ecology and Conservation
BIOD60H3 Spatial Ecology
BIOD62H3 Species and Speciation
BIOD66H3 Causes and Consequences of Biodiversity
BIOD67H3 Inter-University Biology Field Course
EESC04H3 Biodiversity and Biogeography

Bin 2: C- & D-level Organismal Biology Courses
Choose from:
BIOC37H3 Plants: Life on the Edge
(BIOC38H3) Plants and Society
BIOC40H3 Plant Physiology
BIOC54H3 Animal Behaviour
BIOC62H3 Role of Zoos in Conservation
BIOD26H3 Fungal Biology & Pathogenesis
BIOD33H3 Comparative Animal Physiology
BIOD37H3 Biology of Plant Stress
BIOD43H3 Animal Movement and Exercise
BIOD45H3 Animal Communication
BIOD48H3 Ornithology
BIOD53H3 Special Topics in Behavioural Ecology
EESC30H3 Environmental Microbiology

B. Senior Research Courses (optional)
Students interested in graduate research are encouraged to take one or more of the independent research courses offered in Biological Sciences as part of their degree.
BIOD95H3 Supervised Study in Biology
BIOD98Y3 Directed Research in Biology
BIOD99Y3 Directed Research in Biology

New Completion Requirements:

Program Requirements
This program consists of 14.5 required credits.

A. Required Courses
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:
[MATA29H3 Calculus I for the Life Sciences and MATA35H3 Calculus II for Biological Sciences] *or*
[MATA30H3 Calculus I for Physical Sciences and MATA36H3 Calculus II for Physical Sciences]

0.5 Credit in Physics
Choose from:
PHYA10H3 Introduction to Physics IA
PHYA11H3 Introduction to Physics IB

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)

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
BIOB52H3 Ecology and Evolutionary Biology Laboratory

0.5 Credit in Statistics
Choose from:
STAB22H3 Statistics I
PSYB07H3 Data Analysis in Psychology

Third Year
2.0 Credits of C-level Ecology and Evolution Foundation Courses
BIOC16H3 Evolutionary Genetics and Genomics
BIOC50H3 Macroevolution
BIOC59H3 Advanced Population Ecology
BIOC61H3 Community Ecology and Environmental Biology

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

Bin 1: C- & D-level Ecology and Evolution Courses
Choose from:
BIOC51H3 Tropical Biodiversity Field Course
BIOC52H3 Ecology Field Course
BIOC58H3 Biological Consequences of Global Change
BIOC60H3 Winter Ecology
BIOC63H3 Conservation Biology
BIOC65H3 Environmental Toxicology
(BIOC67H3) Inter-University Biology Field Course

BIOD52H3 Special Topics in Biodiversity and Systematics
BIOD54H3 Applied Conservation Biology
BIOD59H3 Models in Ecology and Conservation
BIOD60H3 Spatial Ecology
BIOD62H3 Species and Speciation
BIOD66H3 Causes and Consequences of Biodiversity
BIOD67H3 Inter-University Biology Field Course
EESC04H3 Biodiversity and Biogeography

Bin 2: C- & D-level Organismal Biology Courses
Choose from:
BIOC37H3 Plants: Life on the Edge
(BIOC38H3) Plants and Society
BIOC40H3 Plant Physiology
BIOC54H3 Animal Behaviour
BIOC62H3 Role of Zoos in Conservation
BIOD26H3 Fungal Biology & Pathogenesis
BIOD33H3 Comparative Animal Physiology
BIOD37H3 Biology of Plant Stress
BIOD43H3 Animal Movement and Exercise
BIOD45H3 Animal Communication
BIOD48H3 Ornithology
BIOD53H3 Special Topics in Behavioural Ecology
EESC30H3 Environmental Microbiology

B. Senior Research Courses (optional)
Students interested in graduate research are encouraged to take one or more of the independent research courses offered in Biological Sciences as part of their degree.
BIOD95H3 Supervised Study in Biology
BIOD98Y3 Directed Research in Biology
BIOD99Y3 Directed Research in Biology

Brief Description of the Proposal:

1. Add [MATA30H3 and MATA36H3] as an option to complete the 1.0 Credit in Mathematics under the First Year component. [MATA29H3 and MATA35H3] change from required to optional courses.
2. Add BIOD59H3 as an optional course to Bin 1: C- & D-level Ecology and Evolution Courses under the Third Year component.

Rationale:

1. MATA29H3 (Calculus I for the Life Sciences) and MATA35H3 (Calculus II for Biological Sciences) are new introductory mathematics courses designed to meet the needs of Biology students. They have been added as an optional means through which students may complete the 1.0 credits in Mathematics component of the program.
2. BIOD59H3 (Models in Ecology and Conservation) is a new course that is an appropriate options for students to use to complete the 2.0 credits of C- and D-level Ecology and Evolution Foundation Courses component of the program. This course offers a unique opportunity for students to develop an understanding of modeling which is applicable to this program.

Impact that the proposal may have on students or other academic units/divisions:

None.

Consultation:

We have discussed this with our curriculum committee within the department and all support this change.
We have also consulted with the department of Computer and Mathematical Sciences.

This change was approved by the Biological Sciences Curriculum Committee on September 7th, 2016.

Resource Implications:
none

16 Course Modifications

BIOA01H3: Life on Earth: Unifying Principles

Prerequisites	***Current:*** [Grade 12 Biology or BIOA11H3] and Grade 12 Advanced Functions ***New:*** [Grade 12 Biology or BIOA11H3] and [Grade 12 Advanced Functions or Grade 12 Calculus and Vectors or the Online Mathematics Preparedness Course]
Rationale	Grade 12 Calculus and Vectors or the successful completion of the Online Mathematics Preparedness Course have been added as optional prerequisites to broaden the Math options for students coming out of high school, as well as provide students another option for entrance into first year biology if they did not take Math in high school. All three options provide appropriate background for success in first year biology. These changes do not alter the learning outcomes of the course.
Consultation	We have discussed this with our curriculum committee within the department and all agree to this change. We have also consulted with the Anthropology Department, Centre for Critical Development Studies, Computer & Mathematical Sciences, Psychology Department, and the Physical & Environmental Sciences Department who have no concerns with the change listed above. This change was approved by the Biological Sciences Curriculum Committee on June 28, 2016.

BIOA02H3: Life on Earth: Form, Function and Interactions

Prerequisites	***Current:*** [Grade 12 Biology or BIOA11H3] and Grade 12 Advanced Functions ***New:*** [Grade 12 Biology or BIOA11H3] and [Grade 12 Advanced Functions or Grade 12 Calculus and Vectors or the Online Mathematics Preparedness Course]
Rationale	Grade 12 Calculus and Vectors or the successful completion of the Online Mathematics Preparedness Course have been added as options to fulfill the prerequisite. All three options provide appropriate background for success in first year biology and widen the options for students coming out of high school as well as provide students another option for entrance into first year biology if they did not take Math in high school. These changes do not alter the learning outcomes of the course.
Consultation	We have discussed this with our curriculum committee within the department and all agree to this change. We have also consulted with the Anthropology Department, Centre for Critical Development Studies, Computer & Mathematical Sciences, Psychology Department, and the Physical & Environmental Sciences Department who have no concerns with the change listed above. This change was approved by the Biological Sciences Curriculum Committee on June 28, 2016.

BIOA11H3: Introduction to the Biology of Humans

Description	***Current:*** An exploration of how molecules and cells come together to build a regulate human organ systems. The course provides a foundation for understanding genetic principles and human disease, and applications of biology to societal needs. This course is intended for non-biology students. ***New:*** An exploration of how molecules and cells come together to build and regulate human organ systems. The course provides a foundation for understanding genetic principles and human disease, and applications of biology to societal needs. This course is intended for non-biology students.
Exclusions	***Current:*** BIOA01H3, BIOA02H3, CSB201H1 ***New:*** Grade 12 Biology, BIOA01H3, BIOA02H3, CSB201H1
Rationale	BIOA11H was introduced to provide a solid foundation in biological principles for those students entering UTSC without Grade 12 Biology. The course is included as a program requirement for 1st year students who wish to enroll in the Major/Major Co-op in Health Studies - Population Health, which also lists BIOA01 as an alternative 1st year course, likely for students who have already completed Grade 12 Biology. Students in this program are currently able to choose between BIOA11H and BIOA01H to fulfill their program requirement, regardless of their preparation level in high school biology. Given that BIOA11H has been developed specifically for students who do not have a foundational knowledge of Grade 12 biology, we would like to explicitly state that Grade 12 biology is an exclusion for BIOA11H in the course calendar.
Consultation	We have discussed this with our curriculum committee within the department and all agree to this change. We have also consulted with Health Studies regarding this change. This change was approved by the Biological Sciences Curriculum Committee on September 7th, 2016.

BIOB38H3: Plants and Society

Description	***Current:*** How do plants feed humans? What are agricultural origins and what plant traits changed in domesticated plants? Human population is at 7 billion, but will climb to 10 billion in 2050. This will tax our planets ability to sustain life and environmentally sustainable food production will become more integral. ***New:*** How do plants feed humans? What are the agricultural origins and what plant traits changed in domesticated plants? Human population is at 7 billion, but will climb to 10 billion in 2050. This will tax our planets ability to sustain life and environmentally sustainable food production will become more integral.
Rationale	Editorial change to course description only.
Consultation	Not applicable.

BIOC23H3: Practical Approaches to Biochemistry

Description	***Current:*** A lecture and laboratory course that introduces students to experimental approaches used in biochemical research. Topics include practical and theoretical aspects of: spectrophotometry; chromatography; electrophoresis; radioisotopes; enzyme assays, protein purification and approaches to identify protein-protein interactions. Students are expected to solve numerical problems involving these and related procedures. ***New:*** A lecture and laboratory course that introduces students to experimental approaches used in biochemical research. Topics include practical and theoretical aspects of: spectrophotometry; chromatography; electrophoresis; radioisotopes; enzyme assays, protein purification and approaches to identify protein-protein interactions. Students are expected to solve numerical problems involving these and related procedures.
Exclusions	***Current:*** BCH370H, BCH371H ***New:*** BCH370H, BCH371H, BCH377H, BCH378H
Rationale	BCH377 and BCH378 list BCH370 as exclusions. Since BIOC23H lists BCH370 as an exclusion, BCH377 and BCH378 should be added as exclusions.
Consultation	We have discussed this with our curriculum committee within the department and all agree to this change. We have also consulted with the Psychology Department, and the Physical & Environmental Sciences Department who have no concerns with the changes listed above. This change was approved by the Biological Sciences Curriculum Committee on September 7th, 2016

BIOC37H3: Plants: Life on the Edge

Description	***Current:*** 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. ***New:*** Plants have evolved adaptations to maximize growth, survival and reproduction under various taxing environmental conditions. This course covers the great diversity of plant structures and function in relation to ecology, focusing mainly on the anatomy of flowering plants.
Rationale	Editorial change only to course description.
Consultation	Not required.

BIOC39H3: Immunology

Prerequisites	***Current:*** [[BIOB10H3 and BIOB11H3] or BIOB10Y3] ***New:*** [BIOB10H3 and BIOB11H3] or BIOB10Y3
Exclusions	***Current:*** IMM340H, IMM341H, IMM350H, IMM351H ***New:*** IMM340H, IMM341H, IMM350H, IMM351H, (IMM334Y), (IMM335Y)
Rationale	IMM334Y and IMM335Y were removed as exclusions because they were split into two half courses each (which were added as exclusions). The two courses are being added again to the exclusions for those students who have taken these courses in the past. - they are shown in rounded brackets to denote that they are courses that are retired.

Consultation	We have discussed this with our curriculum committee within the department and all support this change. This change was approved by the Biological Sciences Curriculum Committee on June 28th, 2016.

BIOC40H3: Plant Physiology

Prerequisites	***Current:*** [[BIOB10H3 and BIOB11H3] or BIOB10Y3]] and BIOB38H3 ***New:*** [BIOB10H3 and BIOB11H3] or BIOB10Y3
Exclusions	***Current:*** (BIOB31H3), BIO251Y, (BOT251Y) ***New:*** (BIOB31H3), BIO251H
Rationale	1. BIOB38H3 has been removed from the prreequisites because the background necessary for success in this course is fulfilled with BIOB10H and BIOB11H. Removing the BIOB38H prerequisite will allow better access for students into BIOC40H3. 2. BIO251 has been changed from a Y to an H course, the exclusions have been updated to reflect this change. 3. We are removing (BOT251Y) from the calendar as St. George deleted this course over 10 years ago.
Consultation	We have discussed this with our curriculum committee within the department and all support these changes. This change was approved by the Biological Sciences Curriculum Committee on June 28th, 2016.

BIOC51H3: Tropical Biodiversity Field Course

Description	***Current:*** A course with preparatory lectures at UTSC and 1 week at a tropical field station. Ecological and evolutionary aspects of tropical biodiversity will be explored. Students must contact the instructor by September to enrol in this course. ***New:*** A course with preparatory lectures on the UTSC campus and 1 week at a field station in Costa Rica where ecological, evolutionary, and practical aspects of tropical biodiversity will be explored. Field work will involve outdoor activities in challenging conditions.
Prerequisites	***Current:*** BIOB50H3, BIOB51H3, BIOB52H3 and permission of instructor. Note: Interested students should contact the instructor 4 months before the start of the course, and must be able to place a deposit towards the cost of airfare and accommodation. ***New:*** BIOB50H3 and BIOB51H3 and BIOB52H3 and permission of instructor.
Note	***Current:*** ***New:*** Students should contact the instructor 4 months before the start of the course. Additional course fees are applied, and students will need to place a deposit towards the cost of airfare and accommodation.
Rationale	Changes to the course description are editorial and will improve its clarity. The The information about ancillary fees has been moved from the prerequisite to the NOTE field, since it belongs in the NOTE field.
Consultation	The changes are editorial only.

BIOC52H3: Ecology Field Course

Description	***Current:*** Opportunity to experience hands-on learning through informal natural history walks, group projects, research projects in a small-class setting. The course covers basic principles and selected techniques of field ecology. The study of a variety of topics in population and community ecology, plant-animal interactions. Mandatory: occasional weekend field trips. ***New:*** This course provides students with the opportunity to experience hands-on learning through informal natural history walks, and group and individual research projects, in a small-class setting. The course covers basic principles and selected techniques of field ecology and ecological questions related to plants in their natural settings. Most of the field work takes place in the Highland Creek ravine.
Exclusions	***Current:*** EEB305H, (BIO305H) ***New:*** (EEB305H)
Rationale	1. Changes to the course description are editorial and will improve its clarity. 2. EEB305H has been placed in brackets in the exclusions because this course is no longer offered by EEB; (BIO305H) has been removed from the exclusions because it was retired over 10 years ago.
Consultation	We have discussed this with our curriculum committee within the department and all support this change. This change was approved by the Biological Sciences Curriculum Committee on September 7th, 2016.

BIOD17H3: Seminars in Cellular Microbiology

Prerequisites	***Current:*** BIOC17H3 ***New:*** BIOC17H3 or BIOC39H3
Rationale	The content in BIOC39H provides significant background relevant to BIOD17H3, and is a suitable alternative prerequisite.
Consultation	We have discussed this with our curriculum committee within the department and all support this change. This change was approved by the Biological Sciences Curriculum Committee on September 7, 2016.

BIOD22H3: Molecular Biology of the Stress Response

Prerequisites	***Current:*** BIOC15H3 ***New:*** BIOC10H3 or BIOC12H3 or BIOC15H3
Rationale	The content in BIOC10 and BIOC12 will also prepare the students for understanding the topics covered in BIOD22H3. By providing alternate pre-requisites, this improves the student access into this D-level course.
Consultation	We have discussed this with our curriculum committee within the department and all support this change. This change was approved by the Biological Sciences Curriculum Committee on September 7th, 2016.

BIOD29H3: Pathobiology of Human Disease

Prerequisites	***Current:*** ***New:*** BIOC10H3 or BIOC17H3 or BIOC39H3
Corequisites	***Current:*** BIOC10H3 or BIOC17H3 or BIOC39H3 ***New:***
Rationale	BIOC10H was originally created and launched in the same semester at BIOD29H. In order to allow students who took BIOC10H in its initial renditions, to also take BIOD29H, BIOC10H was listed as a co-requisite. Now, that both are established courses, we would like to change the co-requisite to a pre-requisite, to truly reflect the progression of courses expected of students. In addition, the instructor has noted that students who have completed BIOC10H, are better prepared for the content and assessments used in BIOD29H. The co-requisites of BIOC17H and BIOC39H were originally in place when the BIOD29H course was first proposed and launched. As these C level courses were offered in the same semester as the new BIOD29H, the C level courses were stated as co-requisites for entry into BIOD29H. Given that BIOD29H is now an established course, we feel that it is important to state that C level courses are pre-requisites for this course, given that students would benefit from completing these C-level courses prior to engaging with the content and assessments of BIOD29H.
Consultation	We have discussed this with our curriculum committee within the department and all support this change. This change was approved by the Biological Sciences Curriculum Committee on September 7th, 2016.

BIOD52H3: Biodiversity and Conservation

Calendar Title	***Current:*** Special Topics in Biodiversity and Systematics ***New:*** Biodiversity and Conservation
Description	***Current:*** A seminar exploration of current topics in biodiversity and systematics, including the molecular genetic, organismal, and community levels. Topics may include DNA barcoding, homology and developmental genetics, adaptive radiations, and morphological v.s. molecular systematics. The course is intended to develop ability in critical thinking and interpretation of the primary literature. Coursework will involve class presentations, discussions, and written analyses. ***New:*** A seminar exploration of current topics in biodiversity and conservation, including genetic, organismal, and community levels. Examples include DNA barcoding, adaptive radiations, phylogenetic trees, and biodiversity hotspots. Skills development in critical thinking and interpretation of the primary literature is emphasized, with coursework involving group presentations, discussions, and written analyses.
Prerequisites	***Current:*** BIOC50H3 ***New:*** BIOC50H3 or BIOC63H3
Rationale	Title: Title is being changed to more accurately reflect existing course content. Course already includes a significant amount of material relevant to conservationthis is now being clarified in the title.

	Course Description: New description more accurately reflects the course content. Course already includes a significant amount of material relevant to conservationthis is now being clarified in the description. This change will provide students a better preparation for material in the course. Other changes are grammatical and improve the sentence structure of the description. Pre-requisite change: BIOD52H3 has traditionally included a significant conservation biology component, and students with BIOC63H3 are adequately prepared for the course material
Consultation	We have discussed this with our curriculum committee within the department and all support this change. We have also consulted with Physical and Environmental Sciences regarding these changes. This change was approved by the Biological Sciences Curriculum Committee on June 28th, 2016.

BIOD62H3: Species and Speciation

Description	***Current:*** 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. ***New:*** A species is the basic unit of evolution and this course focuses on the process of how species evolve and what keeps established species apart. This course thus provides the student with a deeper understanding of how Earth's biodiversity evolved and is maintained under natural conditions.
Prerequisites	***Current:*** BIOC50H3 ***New:*** BIOC16H3 or BIOC50H3
Rationale	1. Changes to the course description are editorial. 2. Prerequisite Change: Students who have taken BIOC16H3 have sufficient preparation for success in BIOD62H3. Therefore in the best interest of students streaming, we are adding it as an alternate prerequisite.
Consultation	We have discussed this with our curriculum committee within the department and all support this change. This change was approved by the Biological Sciences Curriculum Committee on September 7th, 2016.

BIOD65H3: Pathologies of the Nervous System

Prerequisites	***Current:*** [BIOB11H3 or BIOB10Y3] and [one of NROC61H3 or NROC64H3 or NROC69H3] ***New:*** [BIOB11H3 or BIOB10Y3] and [one of: BIOC32H3, NROC61H3, NROC64H3 or NROC69H3]
Rationale	The content in BIOC32H3 covers relevant material that is expanded on in BIOD65H3. Therefore in the best interest of students streaming, we are adding it as an alternate pre-requisite.
Consultation	We have discussed this with our curriculum committee within the department and all support this change. We have also consulted with the Psychology Department regarding this change.

	This change was approved by the Biological Sciences Curriculum Committee on September 7th, 2016.

Human Geography, Department of

3 Program Minor Modifications (Abbreviated Divisional Review)

SPECIALIST PROGRAM IN CITY STUDIES (ARTS)

Current Completion Requirements:

Program Requirements:
This program requires the completion of 12.0 credits as follows:

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

2. Core courses (2.0 credits as follows):
CITB02H3 Foundations of City Studies
and 1.5 credits from among the following:
CITB01H3 Canadian Cities and Planning
CITB03H3 Social Planning and Community Development
CITB04H3 City Politics
CITB08H3 Economy of Cities

3. Research Methods (2.0 credits):
STAB23H3 Introduction to Statistics for the Social Sciences (or equivalent)
GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning
[GGRB30H3 Fundamentals of GIS I or GGRB03H3 Writing Geography]
[GGRC32H3 Essential Spatial Analysis or GGRC31H3 Qualitative Geographical Methods: Place and Ethnography]

4. City Studies Applications (3.5 credits from among the following):
CITC01H3 Urban Communities and Neighbourhoods Case Study
CITC02H3 Learning in Community Service
CITC03H3 Real Estate and the City
CITC04H3 Municipal and Planning Law in Ontario
CITC07H3 Urban Social Policy
CITC08H3 Cities and Community Development
CITC09H3 Introduction to Planning History: Toronto and Its Region
CITC12H3 City Structures and City Choices: Local Government, Management, and Policymaking
CITC14H3 Environmental Planning
CITC15H3 Taxing and Spending: Public Finance in Canadian Cities
CITC16H3 Planning and Governing the Metropolis
CITC17H3 Civic Engagement in Urban Politics

~~3~~5. ~~City~~Approaches ~~Studies~~to ~~Fundamentals~~Cities (~~3~~1.5 credits from among the following):)*:
~~CITC01H3 Urban Communities and Neighbourhoods Case Study~~
~~CITC02H3 Learning in Community Service~~
~~CITC03H3 Real Estate and the City~~
~~CITC04H3 Municipal and Planning Law in Ontario~~
~~CITC07H3 Urban Social Policy~~
~~CITC08H3 Cities and Community Development~~
~~CITC12H3 City Structures and City Choices: Local Government, Management, and Policymaking~~
~~CITC14H3 Environmental Planning~~
~~CITC15H3 Taxing and Spending: Public Finance in Canadian Cities~~
~~CITC16H3 Planning and Governing the Metropolis~~
~~CITC17H3 Civic Engagement in Urban Politics~~
~~CITC18H3 Transportation Policy Analysis~~

~~**4. Research Methods (2.0 credits):**~~
~~STAB23H3 Introduction to Statistics for the Social Sciences (or equivalent)~~
~~GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning~~
~~[GGRB30H3 Fundamentals of GIS I or GGRB03H3 Writing Geography: From Good to Great]~~
~~[GGRC32H3 Essential Spatial Analysis or GGRC31H3 Qualitative Geographical Methods: Place and Ethnography]~~

~~**5. City Studies Applications (1.5 credits from among the following)*:**~~
GGRB02H3 The Logic of Geographic Thought
GGRB05H3 Urban Geography
GGRB13H3 Social Geography
POLB50Y3 Canadian Government and Politics
SOCB44H3 Sociology of Cities and Urban Life
GGRC02H3 Population Geography
GGRC10H3 Urbanization and Development
GGRC11H3 Current Topics in Urban Geography
GGRC12H3 Transportation Geography
GGRC13H3 Urban Political Geography
GGRC27H3 Location and Spatial Development
GGRC33H3 The Toronto Region
GGRC40H3 Megacities and Global Urbanization
GGRC48H3 Geographies of Urban Poverty
POLC53H3 Canadian Environmental Policy
PPGC66H3/(POLC66H3) Public Policy Making
PPGC67H3/(POLC67H3) Public Policy in Canada
*Note: these courses may have prerequisites that are not included in this program

6. City Studies Workshop (1.0 credit):
CITD05H3 City Studies Workshop I
CITD06H3 City Studies Workshop II

7. Advanced Applications (1.0 credit):
CITD01H3 City Issues and Strategies
CITD10H3 Seminar in Selected Issues in City Studies
CITD30H3 Supervised Research Project
GGRD14H3 Social Justice and the City

New Completion Requirements:

Program Requirements:
This program requires the completion of 12.0 credits as follows:

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

2. Core courses (2.0 credits as follows):
CITB02H3 Foundations of City Studies
and 1.5 credits from among the following:
CITB01H3 Canadian Cities and Planning
CITB03H3 Social Planning and Community Development
CITB04H3 City Politics
CITB08H3 Economy of Cities

3. Research Methods (2.0 credits):
STAB23H3 Introduction to Statistics for the Social Sciences (or equivalent)
GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning
[GGRB30H3 Fundamentals of GIS I or GGRB03H3 Writing Geography]
[GGRC32H3 Essential Spatial Analysis or GGRC31H3 Qualitative Geographical Methods: Place and Ethnography]

4. City Studies Applications (3.5 credits from among the following):
CITC01H3 Urban Communities and Neighbourhoods Case Study
CITC02H3 Learning in Community Service
CITC03H3 Real Estate and the City
CITC04H3 Municipal and Planning Law in Ontario
CITC07H3 Urban Social Policy
CITC08H3 Cities and Community Development
CITC09H3 Introduction to Planning History: Toronto and Its Region
CITC12H3 City Structures and City Choices: Local Government, Management, and Policymaking
CITC14H3 Environmental Planning
CITC15H3 Taxing and Spending: Public Finance in Canadian Cities
CITC16H3 Planning and Governing the Metropolis
CITC17H3 Civic Engagement in Urban Politics
CITC18H3 Transportation Policy Analysis

5. Approaches to Cities (1.5 credits from among the following)*:
GGRB02H3 The Logic of Geographic Thought
GGRB05H3 Urban Geography
GGRB13H3 Social Geography
POLB50Y3 Canadian Government and Politics
SOCB44H3 Sociology of Cities and Urban Life
GGRC02H3 Population Geography
GGRC10H3 Urbanization and Development
GGRC11H3 Current Topics in Urban Geography
GGRC12H3 Transportation Geography
GGRC13H3 Urban Political Geography
GGRC27H3 Location and Spatial Development
GGRC33H3 The Toronto Region
GGRC40H3 Megacities and Global Urbanization
GGRC48H3 Geographies of Urban Poverty
POLC53H3 Canadian Environmental Policy
PPGC66H3/(POLC66H3) Public Policy Making
PPGC67H3/(POLC67H3) Public Policy in Canada
*Note: these courses may have prerequisites that are not included in this program

6. City Studies Workshop (1.0 credit):
CITD05H3 City Studies Workshop I
CITD06H3 City Studies Workshop II

7. Advanced Applications (1.0 credit):
CITD01H3 City Issues and Strategies
CITD10H3 Seminar in Selected Issues in City Studies
CITD30H3 Supervised Research Project
GGRD14H3 Social Justice and the City

Brief Description of the Proposal:

1. Move requirement 4 (methods) to become component 3; component 3 becomes component 4
2. Add CITC09H3 as an optional course to meet component 4- City Studies Applicationss

Rationale:

CITC09H3 provides students with an introduction to the study of the history of urban planning with a specific focus on planning ideas that have shaped Toronto through the twentieth century. Adding this course to Requirement 3 of the program will allow students to consider international developments in planning thought with a specific application of such theories towards Toronto and the surrounding region.

Impact that the proposal may have on students or other academic units/divisions:

Incoming and continuing students now have an additional course to select from towards meeting Requirement 3. The prerequisites for CITC09H3 are the same as other C-level City Studies courses that are already part of curriculum. Thus students should still be able to meet the prerequisites for CITC09H3 in their 3rd year of studies.
Program exceptions will be made for continuing students that are currently following requirements of the 2016-2017 Calendar year to use this course towards their requirement 3 of the program.
Moving requirement 4 (methods) to requirement 3 allows students to better visualize the courses they should be completing in their 2nd year of studies. This movement will not impact any new students to the program or any continuing students.

Consultation:

The Department of Human Geographys Faculty has been consulted.
DCC approved: October 11th 2016

Resource Implications:

The addition of this course to our curriculum will not require any additional resources as it is a pre-existing course offered this year with a set capacity that is expected to change. In addition, there is a large breadth of courses for our students to select from in Req3. We do not expect that the enrolment will significantly increase within this course.

MAJOR PROGRAM IN HUMAN GEOGRAPHY (ARTS)

Current Completion Requirements:

Program Requirements

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

1. **Foundations of Human Geography (1.0 credit from the following):**
   GGRA02H3 The Geography of Global Processes
   GGRA03H3 Cities and Environments
   GGRA35H3 The Great Scarborough Mashup: People, Place, Community, Experience

2. **Theory and Concepts in Human Geography (2.0 credit):**
   GGRB02H3 The Logic of Geographical Thought
   and
   1.5 credits from:
   GGRB05H3 Urban Geography
   GGRB13H3 Social Geography
   GGRB21H3 ~~Environments and Environmentalisms~~ Political Ecology: Nature, Society and Environmental Change
   GGRB28H3 Geographies of Disease
   GGRB55H3 Cultural Geography

3. **Methods (1.0 credit from the following):**
   GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning
   GGRB03H3 ~~Writing Geography: From Good to Great~~ Writing Geography
   GGRB30H3 Fundamentals of GIS I
   GGRB32H3 Fundamentals of GIS II
   GGRC31H3 Qualitative Geographical Methods: Place and Ethnography
   STAB23H3 Introduction to Statistics for the Social Sciences

4. **Applications (2.5 credits):**
   2.5 credits at the C- and/or D-level in GGR courses

5. **Advanced Applications (0.5 credit):**
   0.5 credit at the D-level in GGR courses

New Completion Requirements:

Program Requirements

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

1. **Foundations of Human Geography (1.0 credit from the following):**
   GGRA02H3 The Geography of Global Processes
   GGRA03H3 Cities and Environments
   GGRA35H3 The Great Scarborough Mashup: People, Place, Community, Experience

2. **Theory and Concepts in Human Geography (2.0 credit):**
   GGRB02H3 The Logic of Geographical Thought
   and
   1.5 credits from:
   GGRB05H3 Urban Geography
   GGRB13H3 Social Geography
   GGRB21H3 Political Ecology: Nature, Society and Environmental Change
   GGRB28H3 Geographies of Disease
   GGRB55H3 Cultural Geography
3. **Methods (1.0 credit from the following):**
   GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning
   GGRB03H3 Writing Geography
   GGRB30H3 Fundamentals of GIS I
   GGRB32H3 Fundamentals of GIS II
   GGRC31H3 Qualitative Geographical Methods: Place and Ethnography
   STAB23H3 Introduction to Statistics for the Social Sciences
4. **Applications (2.5 credits):**
   2.5 credits at the C- and/or D-level in GGR courses
5. **Advanced Applications (0.5 credit):**
   0.5 credit at the D-level in GGR courses

Brief Description of the Proposal:

1. Editorial change to title for GGRB03H3 from 'Writing Geography: From good to great'' to 'Writing Geography'
2. Editorial change to title for GGRB21H3 from to 'Environments and Environmentalisms' to ' Political Ecology: Nature, Society and Environmental Change'

Rationale:

The editorial changes to these titles will more clearly communicate to students the subject matter of the course. This title will better match student interest with the appropriate course content. The change in title for both courses will not have any impact on the course learning outcomes, topics covered or the methods of assessment that are currently used in the course. A separate proposal has been submitted for each of the courses.

Impact that the proposal may have on students or other academic units/divisions:

This change does not have any impact on students or other academic units/division

Consultation:

The Human Geography Departments faculty have been consulted.
DCC approved: December 15th 2016
Consultation outside the academic unit (where appropriate): Consultation outside the academic unit is not required

Resource Implications:

There are no resource implications with regards to these title changes

SPECIALIST PROGRAM IN HUMAN GEOGRAPHY (ARTS)

Current Completion Requirements:

Program Requirements
Students must complete 12.0 credits as follows:

1. Foundations of Human Geography (1.0 credit from among the following)
GGRA02H3 The Geography of Global Processes
GGRA03H3 Cities and Environments
GGRA35H3 The Great Scarborough Mashup: People, Place, Community, Experience

2. Theory and Concepts in Human Geography (2.5 credits)
GGRB02H3 The Logic of Geographical Thought
GGRB03H3 Writing Geography~~: From Good to Great~~
and
1.5 credits from among the following:
GGRB05H3 Urban Geography_GGRB13H3 Social Geography
GGRB21H3 ~~Environments and Environmentalisms~~ Political Ecology: Nature, Society and Environmental Change
GGRB28H3 Geographies of Disease
GGRB55H3 Cultural Geography

3. Methods (2.0 credits)
GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning
STAB23H3 Introduction to Statistics for the Social Sciences (or equivalent)
and 1.0 credits from:
GGRB30H3 Fundamentals of GIS I
GGRB32H3 Fundamentals of GIS II_GGRC31H3 Qualitative Geographical Methods: Place and Ethnography

4. Applications (5.5 credits)
5.5 additional credits at the C- and/or D-level in GGR courses

5. Advanced Applications (1.0 credit)
1.0 credit at the D-level in GGR courses

New Completion Requirements:

Program Requirements
Students must complete 12.0 credits as follows:

1. Foundations of Human Geography (1.0 credit from among the following)
GGRA02H3 The Geography of Global Processes
GGRA03H3 Cities and Environments
GGRA35H3 The Great Scarborough Mashup: People, Place, Community, Experience

2. Theory and Concepts in Human Geography (2.5 credits)
GGRB02H3 The Logic of Geographical Thought
GGRB03H3 Writing Geography
and 1.5 credits from among the following:
GGRB05H3 Urban Geography_GGRB13H3 Social Geography
GGRB21H3 Political Ecology: Nature, Society and Environmental Change
GGRB28H3 Geographies of Disease
GGRB55H3 Cultural Geography

3. Methods (2.0 credits)
GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning
STAB23H3 Introduction to Statistics for the Social Sciences (or equivalent)
and 1.0 credits from:
GGRB30H3 Fundamentals of GIS I

4. Applications (5.5 credits)
5.5 additional credits at the C- and/or D-level in GGR courses

5. Advanced Applications (1.0 credit)
1.0 credit at the D-level in GGR courses

Brief Description of the Proposal:

1. Editorial change to the title for GGRB03H3 from 'Writing Geography: From good to great'' to 'Writing Geography'
2. Editorial change to the title for GGRB21H3 from to 'Environments and Environmentalisms' to ' Political Ecology: Nature, Society and Environmental Change'

Rationale:

The changes to the titles for GGRB03H3 and GGRB21H3 will more clearly communicate to students the subject matter of the course. This title will better match student interest with the appropriate course content. The change in title for both courses will not have any impact on the course learning outcomes, topics covered or the methods of assessment that are currently used in the course. A separate proposal has been submitted for each of the courses.

Impact that the proposal may have on students or other academic units/divisions:

This change does not have any impact on students or other academic units/division

Consultation:

The Human Geography Departments faculty have been consulted.
DCC approved: December 15th 2016
Consultation outside the academic unit (where appropriate): Consultation outside the academic unit is not required.

Resource Implications:

There are no resource implications with regards to this title change

1 Retired Course

GGRC22H3: Political Ecology Theory and Applications

Rationale:
After a review within the environmental geography team within our curriculum committee we found that GGRC22H3 has a significant overlap with another one of our current courses- GGRB21H3. We are proposing to remove this course from our curriculum to remove the duplicate content from our program as it is already being taught as part of our core B-level offerings and would serve students at the B-level as a foundation for upper C and D-level applications related Environmental Geography courses. There is also a title change being made for GGRB21H3 to better reflect the content that is currently being taught in the course. The title change for GGRB21H3 does not impact our learning outcomes or course content.

2 Course Modifications

GGRB03H3: Writing Geography

Calendar Title	***Current:*** Writing Geography: From Good to Great ***New:*** Writing Geography
Rationale	The change in title will more clearly communicate to students the subject matter of the course.
Consultation	This course is used in the following UTSC programs: Sp in City Studies - requirement 4 Sp in Human Geography - requirement 2 Major in Human Geography - requirement 3 The Department of Human Geography's faculty have been consulted. DCC approved November 14th 2016. Consultation outside the academic unit is not required as no other department at UTSC incorporates GGRB03H3 within its curriculum.

GGRB21H3: Political Ecology: Nature, Society and Environmental Change

Calendar Title	***Current:*** Environments and Environmentalisms ***New:*** Political Ecology: Nature, Society and Environmental Change
Rationale	The change in title will more clearly communicate to students the subject matter of the course. This title will better match student interest with the appropriate course in environmental geography.
Consultation	UTSC programs using this course: Major in Environmental Studies - requirement 2 Specialist in Human Geography - requirement 2 Major in Human Geography - requirement 2 Specialist in IDS (BA) - requirement 3/Env and Land Use UTSC courses using this course: GGRC21H3 (listed as recommended preparation), GGRC22H3 (listed as recommended preparation), GGRC24H3 (listed as recommended preparation), GGRC25H3 (listed as recommended preparation), GGRC26H3 (listed as recommended preparation), GGRC44H3 (listed as recommended preparation), GGRC49H3 (listed as recommended preparation) GGRD28H3 (listed as a prerequisite) Consultation within the academic unit: The Department of Human Geographys faculty have been consulted. DCC approved: November 16th 2016

Management, Department of

1 Retired Course

MGSD10H3: Knowledge Management

Rationale:
This course was replaced by the MGSD15H3, Managing in the Information Economy, which was approved out of cycle for Winter 2016. The new course will cover the substantial theoretical content of this course, thus making this course redundant. Merging the material from MGSD10H3 with this new course provides a more relevant and complete course for our students, and eliminates the need to take two courses to obtain the same knowledge. This course should, therefore, prove more popular with our students and at the same time expands our strategy offerings to cover important recent developments in the economy.

7 Course Modifications

MGEA02H3: Introduction to Microeconomics: A Mathematical Approach

Prerequisites	***Current:*** Grade 12 Calculus ***New:***
Exclusions	***Current:*** MGEA01H3/(ECMA01H3),(ECMA04H3), ECO100Y, ECO105Y ***New:*** MGEA01H3/(ECMA01H3), (ECMA04H3), ECO100Y, ECO105Y
Recommended Preparation	***Current:*** It is strongly recommended that MATA32H3 and MATA33H3 (or equivalents) be taken simultaneously with MGEA02H3/(ECMA04H3) and MGEA06H3/(ECMA06H3). ***New:*** Completion of Grade 12 Calculus is strongly recommended. It is also recommended that MATA32H3 and MATA33H3 (or equivalents) be taken simultaneously with MGEA02H3/(ECMA04H3) and MGEA06H3/(ECMA06H3).
Rationale	Grade 12 Calculus was listed as a prerequisite; however, students without Grade 12 Calculus have been allowed to take this course. We are consequently moving Grade 12 Calculus to be recommended preparation to avoid confusion.
Consultation	UTSC programs using this course: BBA & Statistics Programs UTSC courses using this course: Management and Economics courses Consultation within the academic unit: Consultation within the Economics for Management Studies Area Coordinator. Approved by Curriculum Committee on June 9, 2016 Consultation outside the academic unit (where appropriate): CMS has been notified of the change.

MGEA06H3: Introduction to Macroeconomics: A Mathematical Approach

Prerequisites	***Current:*** Grade 12 Calculus ***New:***
Recommended Preparation	***Current:*** It is strongly recommended that MATA32H3 and MATA33H3 (or equivalents) be taken simultaneously with MGEA02H3/(ECMA04H3) and MGEA06H3/(ECMA06H3). ***New:*** Completion of Grade 12 Calculus is strongly recommended. It is also recommended that MATA32H3 and MATA33H3 (or equivalents) be taken simultaneously with MGEA02H3/(ECMA04H3) and MGEA06H3/(ECMA06H3).
Rationale	Grade 12 Calculus was listed as a prerequisite for MGEA06H3; however, students without Grade 12 Calculus were allowed to take this course. Consequently, the prerequisite of Grade 12 Calculus has been moved recommended preparation to avoid confusion.
Consultation	UTSC programs using this course: BBA & Statistics Programs UTSC courses using this course: Management and Economics courses Consultation within the academic unit: Consultation within the Economics for Management Studies Area Coordinator. Curriculum Committed approved the change on June 9, 2016. Consultation outside the academic unit (where appropriate): CMS has been notified of the change.

MGEB11H3: Quantitative Methods in Economics I

Exclusions	***Current:*** ANTC35H3, (ECMB11H3), ECO220Y, ECO227Y, PSYB07H3, (SOCB06H3), STAB22H3, STAB52H3, STAB57H3 ***New:*** ANTC35H3, (ECMB11H3), ECO220Y, ECO227Y, PSYB07H3, (SOCB06H3), STAB22H3, STAB23H3, STAB52H3, STAB57H3
Rationale	STAB23H3 is a new course that covers some of the same content as MGEB11. It is appropriate to add it as an exclusion.
Consultation	Approved by Curriculum Committee on Sept 14, 2016.

MGEC54H3: Economics of Training and Education

Calendar Title	***Current:*** Economics of Education and the Family ***New:*** Economics of Training and Education
Description	***Current:*** This course studies the economic aspects of how families make decisions: about education, training, employment, child care, and having children. In particular, we study how women's decisions are affected by children and the need to care for them. We study how public policies regarding childcare, training, and education affect the decisions of family members, and discuss how these policies can be improved. ***New:*** This course studies the economic aspects of how individuals and firms make decisions: about education and on-the-job training. Economics and the business world consider education and training as investments. In this class, students will learn how to model these investments, and how to create good policies to encourage individuals and firms to make wise investment decisions.
Exclusions	***Current:*** (ECMC54H3), ECO332H ***New:*** (ECMC54H3), ECO412Y

Rationale	This course is primarily concerned with the field of Labour Economics. The changes to the course title and description reflect minor changes to the course content to ensure the course continues to provide students in the business world with the information and skills they need to be successful. Specifically, the focus on education is being expanded, and topics on on-the-job training are being added. Topics focused on families, marriage, and childcare decisions, which comprised a small part of the course, will no longer be taught. The course learning outcomes will not be impacted by these changes.
Consultation	UTSC programs using this course: Only BBA students will use this course. UTSC courses using this course: n/a Consultation within the academic unit: The proposal was discussed with Professor and Chair of the Management Curriculum Committee, Harry Krashinsky, and Professor Alan Saks. Professor Harry Krashinsky teaches MGEC58H3 which is the Economics of Human Resource Management and Professor Alan Saks teaches MGHD26H3 which is Training and Development. This course change will not overlap with either of these courses. In particular, the course will be taught using a Human Capital framework instead of using a personnel economics lens so the topics related to training will not significantly overlap with MGEC58H3. The topics and methods of talking about training will not overlap with MGHD26H3. This change was approved by the Curriculum Committee on June 9, 2016. Consultation outside the academic unit (where appropriate): n/a

MGEC82H3: International Aspects of Development Policy

Calendar Title	***Current:*** Development Policy ***New:*** International Aspects of Development Policy
Description	***Current:*** A consideration of how government policy can affect the pace and nature of development in Third World countries. Emphasis will be on the most important policies including those relating to rural organization, agricultural goods markets, labour markets, credit markets, land rights systems, income distribution and technological change. ***New:*** This course will use the tools of economics to understand international aspects of economic development policy. Development policy will focus on understanding the engagement of developing countries in the global economy, including the benefits and challenges of that engagement. Topics to be discussed will include globalization and inequality, foreign aid, multinational corporations, foreign direct investment, productivity, regional economic integration, and the environment.
Prerequisites	***Current:*** MGEC81H3/(ECMC66H3) ***New:*** MGEB01H3 or MGEB02H3
Topics Covered	***Current:*** ***New:*** Proposed topics to be included in the course syllabus: 1) Institutions of the International Economy 2) International Productivity Differences and Welfare 3) International Trade and Inequality 4) Environment and Development 5) International Trade and the Environment in Developing Countries 6) Foreign Aid 7) Multinational Corporations and Foreign Direct Investment 8) Urban Clusters and Regional Economic Integration 9) Industrial Policy and Infant Industries in Developing Countries 10) Global Engagement with Heterogeneous Firms and Imperfect Competition in Developing Countries

	11) Commercial Policy 12) Globalization Issues in Developing Countries
Rationale	MGEC82H3 has not been offered for several years. The courses content has not been revised by a UTSC faculty member for over a decade. While the course has always been a Topics course, and therefore open to frequent change, the intent now is to formalize these changes, before ideally offering the course again on a regular (annual) basis. Importantly, the revision allows an opportunity to increase the international content level of this course to enhance our Management and International Business (MIB) curriculum, while still teaching a completely different course from both MGEC81H3 (Economic Development) and MGEC62H3 (International Economics: Trade Theory). The topics covered will both be different from MGEC81H3 and MGEC62H3, but will also be more policy-oriented and less model-focused than these courses. Superficially, the topics may look similar to topics in the International Business course, but they will be approached from a more analytical and economics-based perspective than that course.
Consultation	UTSC programs using this course: Specialist/Specialist Co-op in IDS - optional course in requirement 5 UTSC courses using this course: none Consultation within the academic unit: Area co-ordinator, Economics. Approved by Curriculum Committee on Sept 14, 2016. Consultation outside the academic unit (where appropriate): n/a

MGED50H3: Workshop in Economic Research

Enrolment Limits	***Current:*** ***New:*** 8
Breadth Requirements	***Current:*** ***New:*** Social & Behavioural Sciences
Rationale	The course is a capstone course for the Specialist Program in Economics for Management Studies. This is an intensive research course where the instructor meets weekly with students on a one-on-one basis. A limited enrolment of eight allows the professor to do intense one-on-one meetings with each student thus providing quality time for guidance and consultation. The Breadth Requirement Category was missing from the course; adding Social & Behavioural Sciences corrects an oversight.
Consultation	UTSC programs using this course: Specialist Program in Economics for Management Studies (Bachelor of Business administration) UTSC courses using this course: Only BBA courses Consultation within the academic unit: The Economic area & Departmental Curriculum Committee (Approved June 9, 2016) Consultation outside the academic unit (where appropriate): n/a

MGMA01H3: Principles of Marketing

Prerequisites	***Current:*** [MGTA01H3/(MGTA03H3) and MGTA02H3/(MGTA04H3)] ***New:*** Enrolment in any Bachelor of Business Administration (BBA) program.
Corequisites	***Current:*** MGTA05H3 ***New:***

Rationale	MGMA01 is restricted to students in a BBA Subject POSt; the prerequisite has been revised to reflect this. MGTA05 has been deleted as a co-requisite because it is not necessary. BBA students have repeatedly shown that they can be successful in MGMA01 without taking MGTA05.
Consultation	Approved by Curriculum Committee on Sept 14, 2016.

Philosophy, Department of

30 Course Modifications

PHLB33H3: God, Self, World

Description	***Current:*** For many philosophers "God" is a central concept because it signifies the fundamental cause of the universe, even Nature as a whole. Is God just this first cause, or also a benevolent agent? Can we have an idea of God? Can we prove the existence of God? Texts by Plato, Aristotle, Anselm, Hobbes, Pascal, Spinoza, Leibniz, Hume, Kant, Nietzsche, Gdel. Recommended preparation: PHLA10H3 or PHLA11H3 ***New:*** This course is a thematic introduction to the history of metaphysics, focusing on topics such as the nature of God, our own nature as human beings, and our relation to the rest of the world. We will read a variety of texts, from ancient to contemporary authors, that will introduce us to concepts such as substance, cause, essence and existence, mind and body, eternity and time, and the principle of sufficient reason. We will also look at the ethical implications of various metaphysical commitments.
Recommended Preparation	***Current:*** PHLA10H3 or PHLA11H ***New:***
Rationale	The course description has been updated to more accurately reflect the material being covered. There is no change to the learning outcomes or method of assessment.
Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLB35H3: Introduction to Early Modern Philosophy

Description	***Current:*** This course covers the major figures and themes in seventeenth and eighteenth century philosophy. Descartes, Spinoza, Leibniz, Berkeley, and Hume will be covered. Metaphysical and epistemological themes will be emphasized. ***New:*** This course is an introduction to the major themes and figures of seventeenth and eighteenth century philosophy, from Descartes to Kant, with emphasis on metaphysics, epistemology, and ethics.
Rationale	The course description has been updated to more accurately reflect the material being covered. There is no change to the learning outcomes or method of assessment.
Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLC03H3: Topics in the Philosophy of Art

Prerequisites	***Current:*** 5.0 full credits, including PHLB03H3 and 1.0 additional credit in Philosophy ***New:*** Any 4.5 credits and [PHLB03H3 and an additional 1.0 credit in PHL courses]
Rationale	Course prerequisites at the C-level have been rewritten for clarity, but there is no change to the prerequisite structure. Currently, students are required to complete an introductory course from one of three sub-disciplines (or branches of philosophy) before being eligible to enrol in the more advanced level seminars. To improve clarity, these introductory courses have now been grouped into three areas of focus: (1) Value Theory, (2) History of Philosophy, and (3) Mind, Metaphysics and Epistemology.

	Course prerequisites will now reference the appropriate area of focus, making the academic rationale for the prerequisite immediately clear. The introductory section of the Calendar will explain the rationale behind the prerequisite structure, and will include a table listing introductory philosophy courses by area of focus. Some C-level courses have specific prerequisites that do not reference an area of focus; the language of these prerequisites will be updated for consistency.
Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLC05H3: Ethical Theory

Prerequisites	***Current:*** 5.0 full credits, including one of [PHLB02H3, PHLB05H3, PHLB06H3, PHLB07H3, (PHLB08H3), PHLB09H3, (PHLB36H3)] and 1.0 additional credit in Philosophy. ***New:*** Any 4.5 credits and [an addtional 1.5 credits in PHL courses, of which 0.5 credit must be from the Value Theory area of focus see Table 1.0 for reference]
Rationale	Course prerequisites at the C-level have been rewritten for clarity, but there is no change to the prerequisite structure. Currently, students are required to complete an introductory course from one of three sub-disciplines (or branches of philosophy) before being eligible to enrol in the more advanced level seminars. To improve clarity, these introductory courses have now been grouped into three areas of focus: (1) Value Theory, (2) History of Philosophy, and (3) Mind, Metaphysics and Epistemology. Course prerequisites will now reference the appropriate area of focus, making the academic rationale for the prerequisite immediately clear. The introductory section of the Calendar will explain the rationale behind the prerequisite structure, and will include a table listing introductory philosophy courses by area of focus. Some C-level courses have specific prerequisites that do not reference an area of focus; the language of these prerequisites will be updated for consistency.
Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLC06H3: Topics in Ethical Theory

Prerequisites	***Current:*** 5.0 full credits, including one of [PHLB02H3, PHLB05H3, PHLB06H3, PHLB07H3, (PHLB08H3), PHLB09H3, (PHLB36H3)] and 1.0 additional credit in Philosophy ***New:*** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the Value Theory area of focus see Table 1.0 for reference]
Rationale	Course prerequisites at the C-level have been rewritten for clarity, but there is no change to the prerequisite structure. Currently, students are required to complete an introductory course from one of three sub-disciplines (or branches of philosophy) before being eligible to enrol in the more advanced level seminars. To improve clarity, these introductory courses have now been grouped into three areas of focus: (1) Value Theory, (2) History of Philosophy, and (3) Mind, Metaphysics and Epistemology. Course prerequisites will now reference the appropriate area of focus, making the academic rationale for the prerequisite immediately clear. The introductory section of the Calendar will explain the rationale behind the prerequisite structure, and will include a table listing introductory philosophy courses by area of focus.

	Some C-level courses have specific prerequisites that do not reference an area of focus; the language of these prerequisites will be updated for consistency.
Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLC09H3: Topics in Continental Philosopy

Description	***Current:*** This course is a reading and discussion intensive course in 20th century German and French European Philosophy. Among the movements we shall study will be phenomenology, existentialism, and structuralism. We will look at the writings of Martin Heidegger, Jean-Paul Sartre, Maurice Merleau-Ponty, Michel Foucault, Gilles Deleuze, among others. ***New:*** This course is a reading and discussion intensive course in 20th century German and French European Philosophy. Among the movements we shall study will be phenomenology, existentialism, and structuralism. We will look at the writings of Martin Heidegger, Jean-Paul Sartre, Maurice Merleau-Ponty, Michel Foucault, and Gilles Deleuze, among others.
Prerequisites	***Current:*** 5.0 full credits, and an additional 1.5 credits in Philosophy ***New:*** Any 4.5 credits and [an additional 1.5 credits in PHL courses]
Rationale	Course prerequisites at the C-level have been rewritten for clarity, but there is no change to the prerequisite structure. Currently, students are required to complete an introductory course from one of three sub-disciplines (or branches of philosophy) before being eligible to enrol in the more advanced level seminars. To improve clarity, these introductory courses have now been grouped into three areas of focus: (1) Value Theory, (2) History of Philosophy, and (3) Mind, Metaphysics and Epistemology. Course prerequisites will now reference the appropriate area of focus, making the academic rationale for the prerequisite immediately clear. The introductory section of the Calendar will explain the rationale behind the prerequisite structure, and will include a table listing introductory philosophy courses by area of focus. Some C-level courses have specific prerequisites that do not reference an area of focus; the language of these prerequisites will be updated for consistency.
Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLC13H3: Topics in Philosophy and Feminism

Abbreviated Title	***Current:*** Topics in Philos and Feminism ***New:*** Topics in Philosophy &Feminism
Prerequisites	***Current:*** 5.0 full credits, including one of [PHLB02H3, PHLB05H3, PHLB06H3, PHLB07H3, (PHLB08H3), PHLB09H3, (PHLB36H3)] and 1.0 additional credit in Philosophy ***New:*** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the Value Theory sub-discipline area of focus see Table 1.0 for reference]
Rationale	Course prerequisites at the C-level have been rewritten for clarity, but there is no change to the prerequisite structure. Currently, students are required to complete an introductory course from one of three sub-disciplines (or branches of philosophy) before being eligible to enrol in the more advanced level seminars. To improve clarity, these introductory courses have now been grouped into three areas of focus: (1) Value Theory, (2) History of Philosophy, and (3) Mind, Metaphysics and Epistemology.

	Course prerequisites will now reference the appropriate area of focus, making the academic rationale for the prerequisite immediately clear. The introductory section of the Calendar will explain the rationale behind the prerequisite structure, and will include a table listing introductory philosophy courses by area of focus. Some C-level courses have specific prerequisites that do not reference an area of focus; the language of these prerequisites will be updated for consistency.
Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLC20H3: Theory of Knowledge

Prerequisites	***Current:*** 5.0 full credits, including one of [PHLB20H3, PHLB55H3, PHLB60H3, (PHLB70H3), (PHLB72H3), (PHLB80H3), PHLB81H3, (PHLB86H3)] and 1.0 additional credit in Philosophy ***New:*** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the Mind, Metaphysics and Epistemology area of focus see Table 1.0 for reference]
Rationale	Course prerequisites at the C-level have been rewritten for clarity, but there is no change to the prerequisite structure. Currently, students are required to complete an introductory course from one of three sub-disciplines (or branches of philosophy) before being eligible to enrol in the more advanced level seminars. To improve clarity, these introductory courses have now been grouped into three areas of focus: (1) Value Theory, (2) History of Philosophy, and (3) Mind, Metaphysics and Epistemology. Course prerequisites will now reference the appropriate area of focus, making the academic rationale for the prerequisite immediately clear. The introductory section of the Calendar will explain the rationale behind the prerequisite structure, and will include a table listing introductory philosophy courses by area of focus. Some C-level courses have specific prerequisites that do not reference an area of focus; the language of these prerequisites will be updated for consistency.
Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLC22H3: Topics in Theory of Knowledge

Prerequisites	***Current:*** 5.0 full credits, including one of [PHLB20H3, PHLB55H3, PHLB60H3, (PHLB70H3), (PHLB72H3), (PHLB80H3), PHLB81H3, (PHLB86H3)] and an additional 1.0 credit in Philosophy ***New:*** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the Mind, Metaphysics and Epistemology area of focus see Table 1.0 for reference]
Rationale	Course prerequisites at the C-level have been rewritten for clarity, but there is no change to the prerequisite structure. Currently, students are required to complete an introductory course from one of three sub-disciplines (or branches of philosophy) before being eligible to enrol in the more advanced level seminars. To improve clarity, these introductory courses have now been grouped into three areas of focus: (1) Value Theory, (2) History of Philosophy, and (3) Mind, Metaphysics and Epistemology. Course prerequisites will now reference the appropriate area of focus, making the academic rationale for the prerequisite immediately clear. The introductory section of the Calendar will explain the rationale behind the prerequisite structure, and will include a table listing introductory philosophy courses by area of focus.

	Some C-level courses have specific prerequisites that do not reference an area of focus; the language of these prerequisites will be updated for consistency.
Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLC32H3: Ancient Philosophy

Prerequisites	***Current:*** 5.0 full credits, including one of [(PHLB16H3), PHLB17H3, PHLB31H3, PHLB33H3] and 1.0 additional credit in Philosophy ***New:*** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the History of Philosophy area of focus see Table 1.0 for reference]
Rationale	Course prerequisites at the C-level have been rewritten for clarity, but there is no change to the prerequisite structure. Currently, students are required to complete an introductory course from one of three sub-disciplines (or branches of philosophy) before being eligible to enrol in the more advanced level seminars. To improve clarity, these introductory courses have now been grouped into three areas of focus: (1) Value Theory, (2) History of Philosophy, and (3) Mind, Metaphysics and Epistemology. Course prerequisites will now reference the appropriate area of focus, making the academic rationale for the prerequisite immediately clear. The introductory section of the Calendar will explain the rationale behind the prerequisite structure, and will include a table listing introductory philosophy courses by area of focus. Some C-level courses have specific prerequisites that do not reference an area of focus; the language of these prerequisites will be updated for consistency.
Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLC35H3: Topics in Early Modern Philosophy: Rationalism

Prerequisites	***Current:*** 5.0 full credits, including one of [(PHLB16H3), PHLB31H3, PHLB33H3, PHLB35H3, (PHLB36H3)] and 1.0 additional credit in Philosophy ***New:*** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the History of Philosophy area of focus see Table 1.0 for reference]
Rationale	The course description has been updated to more accurately reflect the material being covered. There is no change to the learning outcomes or method of assessment. --- Course prerequisites at the C-level have been rewritten for clarity, but there is no change to the prerequisite structure. Currently, students are required to complete an introductory course from one of three sub-disciplines (or branches of philosophy) before being eligible to enrol in the more advanced level seminars. To improve clarity, these introductory courses have now been grouped into three areas of focus: (1) Value Theory, (2) History of Philosophy, and (3) Mind, Metaphysics and Epistemology. Course prerequisites will now reference the appropriate area of focus, making the academic rationale for the prerequisite immediately clear. The introductory section of the Calendar will explain the rationale behind the prerequisite structure, and will include a table listing introductory philosophy courses by area of focus. Some C-level courses have specific prerequisites that do not reference an area of focus; the language of these prerequisites will be updated for consistency.

Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLC36H3: Topics in Early Modern Philosophy: Empiricism

Prerequisites	***Current:*** 5.0 full credits, including one of [(PHLB16H3), PHLB31H3, PHLB33H3, PHLB35H3, (PHLB36H3)] and 1.0 additional credit in Philosophy ***New:*** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the History of Philosophy area of focus see Table 1.0 for reference]
Rationale	Course prerequisites at the C-level have been rewritten for clarity, but there is no change to the prerequisite structure. Currently, students are required to complete an introductory course from one of three sub-disciplines (or branches of philosophy) before being eligible to enrol in the more advanced level seminars. To improve clarity, these introductory courses have now been grouped into three areas of focus: (1) Value Theory, (2) History of Philosophy, and (3) Mind, Metaphysics and Epistemology. Course prerequisites will now reference the appropriate area of focus, making the academic rationale for the prerequisite immediately clear. The introductory section of the Calendar will explain the rationale behind the prerequisite structure, and will include a table listing introductory philosophy courses by area of focus. Some C-level courses have specific prerequisites that do not reference an area of focus; the language of these prerequisites will be updated for consistency.
Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLC37H3: Kant

Prerequisites	***Current:*** 1.5 full credits in Philosophy, including at least one course in the history of philosophy. ***New:*** Any 4.5 credits and [[PHLB33H3 or PHLB35H3] and additional 1.0 credit in PHL courses]
Recommended Preparation	***Current:*** PHLB33H3 or PHLB35H3 or (PHLB36H3) ***New:***
Rationale	Course prerequisites at the C-level have been rewritten for clarity, but there is no change to the prerequisite structure. Currently, students are required to complete an introductory course from one of three sub-disciplines (or branches of philosophy) before being eligible to enrol in the more advanced level seminars. To improve clarity, these introductory courses have now been grouped into three areas of focus: (1) Value Theory, (2) History of Philosophy, and (3) Mind, Metaphysics and Epistemology. Course prerequisites will now reference the appropriate area of focus, making the academic rationale for the prerequisite immediately clear. The introductory section of the Calendar will explain the rationale behind the prerequisite structure, and will include a table listing introductory philosophy courses by area of focus. Some C-level courses have specific prerequisites that do not reference an area of focus; the language of these prerequisites will be updated for consistency. Recommended preparation has been removed as it is now explicitly listed in the course prerequisite.

Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLC43H3: History of Analytic Philosophy

Prerequisites	***Current:*** 5.0 full credits, including one of [PHLB20H3, PHLB55H3, PHLB60H3, (PHLB70H3), (PHLB72H3), (PHLB80H3), PHLB81H3, (PHLB86H3)] and one of [PHLB50H3, PHLC51H3, (PHLC54H3), MATC09H3] and 0.5 additional credits in Philosophy ***New:*** Any 4.5 credits and [an additional 1.5 credits in PHL courses, including PHLB50H3 and 0.5 credit from the Mind, Metaphysics and Epistemology area of focus see Table 1.0 for reference]
Rationale	Course prerequisites at the C-level have been rewritten for clarity, but there is no change to the prerequisite structure. Currently, students are required to complete an introductory course from one of three sub-disciplines (or branches of philosophy) before being eligible to enrol in the more advanced level seminars. To improve clarity, these introductory courses have now been grouped into three areas of focus: (1) Value Theory, (2) History of Philosophy, and (3) Mind, Metaphysics and Epistemology. Course prerequisites will now reference the appropriate area of focus, making the academic rationale for the prerequisite immediately clear. The introductory section of the Calendar will explain the rationale behind the prerequisite structure, and will include a table listing introductory philosophy courses by area of focus. Some C-level courses have specific prerequisites that do not reference an area of focus; the language of these prerequisites will be updated for consistency.
Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLC60H3: Metaphysics

Prerequisites	***Current:*** 5.0 full credits, including one of [PHLB20H3, PHLB55H3, PHLB60H3, (PHLB70H3), (PHLB72H3), (PHLB80H3), PHLB81H3, (PHLB86H3)] and 1.0 additional credit in Philosophy ***New:*** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the Mind, Metaphysics and Epistemology area of focus see Table 1.0 for reference]
Rationale	Course prerequisites at the C-level have been rewritten for clarity, but there is no change to the prerequisite structure. Currently, students are required to complete an introductory course from one of three sub-disciplines (or branches of philosophy) before being eligible to enrol in the more advanced level seminars. To improve clarity, these introductory courses have now been grouped into three areas of focus: (1) Value Theory, (2) History of Philosophy, and (3) Mind, Metaphysics and Epistemology. Course prerequisites will now reference the appropriate area of focus, making the academic rationale for the prerequisite immediately clear. The introductory section of the Calendar will explain the rationale behind the prerequisite structure, and will include a table listing introductory philosophy courses by area of focus. Some C-level courses have specific prerequisites that do not reference an area of focus; the language of these prerequisites will be updated for consistency.
Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLC72H3: Philosophy of Science

Prerequisites	***Current:*** 5.0 full credits, including one of [PHLB20H3, PHLB55H3, PHLB60H3, (PHLB70H3), (PHLB72H3), (PHLB80H3), PHLB81H3, (PHLB86H3)] and 1.0 additional credit in Philosophy ***New:*** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the Mind, Metaphysics and Epistemology area of focus see Table 1.0 for reference]
Rationale	Course prerequisites at the C-level have been rewritten for clarity, but there is no change to the prerequisite structure. Currently, students are required to complete an introductory course from one of three sub-disciplines (or branches of philosophy) before being eligible to enrol in the more advanced level seminars. To improve clarity, these introductory courses have now been grouped into three areas of focus: (1) Value Theory, (2) History of Philosophy, and (3) Mind, Metaphysics and Epistemology. Course prerequisites will now reference the appropriate area of focus, making the academic rationale for the prerequisite immediately clear. The introductory section of the Calendar will explain the rationale behind the prerequisite structure, and will include a table listing introductory philosophy courses by area of focus. Some C-level courses have specific prerequisites that do not reference an area of focus; the language of these prerequisites will be updated for consistency.
Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLC80H3: Philosophy of Language

Prerequisites	***Current:*** 5.0 credits, including one of [PHLB20H3, PHLB55H3, PHLB60H3, (PHLB70H3), (PHLB72H3), (PHLB80H3), PHLB81H3, (PHLB86H3)] and 1.0 additional credit in Philosophy. ***New:*** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the Mind, Metaphysics and Epistemology area of focus see Table 1.0 for reference]
Rationale	Course prerequisites at the C-level have been rewritten for clarity, but there is no change to the prerequisite structure. Currently, students are required to complete an introductory course from one of three sub-disciplines (or branches of philosophy) before being eligible to enrol in the more advanced level seminars. To improve clarity, these introductory courses have now been grouped into three areas of focus: (1) Value Theory, (2) History of Philosophy, and (3) Mind, Metaphysics and Epistemology. Course prerequisites will now reference the appropriate area of focus, making the academic rationale for the prerequisite immediately clear. The introductory section of the Calendar will explain the rationale behind the prerequisite structure, and will include a table listing introductory philosophy courses by area of focus. Some C-level courses have specific prerequisites that do not reference an area of focus; the language of these prerequisites will be updated for consistency.
Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLC86H3: Issues in the Philosophy of Mind

Prerequisites	***Current:*** 5.0 full credits, including one of [PHLB20H3, PHLB55H3, PHLB60H3, (PHLB70H3), (PHLB72H3), (PHLB80H3), PHLB81H3, (PHLB86H3)] and 1.0 additional credit in Philosophy ***New:*** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the Mind, Metaphysics and Epistemology area of focus see Table 1.0 for reference]
Rationale	Course prerequisites at the C-level have been rewritten for clarity, but there is no change to the prerequisite structure. Currently, students are required to complete an introductory course from one of three sub-disciplines (or branches of philosophy) before being eligible to enrol in the more advanced level seminars. To improve clarity, these introductory courses have now been grouped into three areas of focus: (1) Value Theory, (2) History of Philosophy, and (3) Mind, Metaphysics and Epistemology. Course prerequisites will now reference the appropriate area of focus, making the academic rationale for the prerequisite immediately clear. The introductory section of the Calendar will explain the rationale behind the prerequisite structure, and will include a table listing introductory philosophy courses by area of focus. Some C-level courses have specific prerequisites that do not reference an area of focus; the language of these prerequisites will be updated for consistency.
Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLC89H3: Topics in Analytic Philosophy

Prerequisites	***Current:*** 5.0 full credits, including one of [PHLB20H3, PHLB55H3, PHLB60H3, (PHLB70H3), (PHLB72H3), (PHLB80H3), PHLB81H3, (PHLB86H3)] and 1.0 additional credit in Philosophy ***New:*** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the Mind, Metaphysics and Epistemology area of focus see Table 1.0 for reference]
Rationale	Course prerequisites at the C-level have been rewritten for clarity, but there is no change to the prerequisite structure. Currently, students are required to complete an introductory course from one of three sub-disciplines (or branches of philosophy) before being eligible to enrol in the more advanced level seminars. To improve clarity, these introductory courses have now been grouped into three areas of focus: (1) Value Theory, (2) History of Philosophy, and (3) Mind, Metaphysics and Epistemology. Course prerequisites will now reference the appropriate area of focus, making the academic rationale for the prerequisite immediately clear. The introductory section of the Calendar will explain the rationale behind the prerequisite structure, and will include a table listing introductory philosophy courses by area of focus. Some C-level courses have specific prerequisites that do not reference an area of focus; the language of these prerequisites will be updated for consistency.
Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLC92H3: Political Philosophy

Prerequisites	***Current:*** 5.0 full credits, including one of [PHLB02H3, PHLB05H3, PHLB06H3, PHLB07H3, (PHLB08H3), PHLB09H3, PHLB17H3, (PHLB36H3)] and 1.0 additional credit in Philosophy ***New:*** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the Value Theory area of focus see Table 1.0 for reference]
Rationale	Course prerequisites at the C-level have been rewritten for clarity, but there is no change to the prerequisite structure. Currently, students are required to complete an introductory course from one of three sub-disciplines (or branches of philosophy) before being eligible to enrol in the more advanced level seminars. To improve clarity, these introductory courses have now been grouped into three areas of focus: (1) Value Theory, (2) History of Philosophy, and (3) Mind, Metaphysics and Epistemology. Course prerequisites will now reference the appropriate area of focus, making the academic rationale for the prerequisite immediately clear. The introductory section of the Calendar will explain the rationale behind the prerequisite structure, and will include a table listing introductory philosophy courses by area of focus. Some C-level courses have specific prerequisites that do not reference an area of focus; the language of these prerequisites will be updated for consistency.
Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLC93H3: Topics in Political Philosophy

Prerequisites	***Current:*** 5.0 full credits, including one of [PHLB02H3, PHLB05H3, PHLB06H3, PHLB07H3, (PHLB08H3), PHLB09H3, PHLB17H3, (PHLB36H3)] and 1.0 additional credit in Philosophy ***New:*** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the Value Theory area of focus see Table 1.0 for reference]
Rationale	Course prerequisites at the C-level have been rewritten for clarity, but there is no change to the prerequisite structure. Currently, students are required to complete an introductory course from one of three sub-disciplines (or branches of philosophy) before being eligible to enrol in the more advanced level seminars. To improve clarity, these introductory courses have now been grouped into three areas of focus: (1) Value Theory, (2) History of Philosophy, and (3) Mind, Metaphysics and Epistemology. Course prerequisites will now reference the appropriate area of focus, making the academic rationale for the prerequisite immediately clear. The introductory section of the Calendar will explain the rationale behind the prerequisite structure, and will include a table listing introductory philosophy courses by area of focus. Some C-level courses have specific prerequisites that do not reference an area of focus; the language of these prerequisites will be updated for consistency.
Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLC95H3: Topics in the Philosophy of Mind

Prerequisites	***Current:*** 5.0 full credits, including one of [PHLB20H3, PHLB55H3, PHLB60H3, (PHLB70H3), (PHLB72H3), (PHLB80H3), PHLB81H3, (PHLB86H3)] and 1.0 additional credit in Philosophy ***New:*** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the Mind, Metaphysics and Epistemology area of focus see Table 1.0 for reference]
Rationale	Course prerequisites at the C-level have been rewritten for clarity, but there is no change to the prerequisite structure. Currently, students are required to complete an introductory course from one of three sub-disciplines (or branches of philosophy) before being eligible to enrol in the more advanced level seminars. To improve clarity, these introductory courses have now been grouped into three areas of focus: (1) Value Theory, (2) History of Philosophy, and (3) Mind, Metaphysics and Epistemology. Course prerequisites will now reference the appropriate area of focus, making the academic rationale for the prerequisite immediately clear. The introductory section of the Calendar will explain the rationale behind the prerequisite structure, and will include a table listing introductory philosophy courses by area of focus. Some C-level courses have specific prerequisites that do not reference an area of focus; the language of these prerequisites will be updated for consistency.
Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLC99H3: Philosophical Development Seminar

Calendar Title	***Current:*** Proseminar in Philosophy ***New:*** Philosophical Development Seminar
Abbreviated Title	***Current:*** Proseminar in Philosophy ***New:*** Phil Development Seminar
Description	***Current:*** This is an intensive seminar that will develop advanced philosophical skills by focusing on textual analysis, argumentative techniques, writing and oral presentation. The course also aims to foster a cohesive cohort among philosophy specialists and majors. Each year, the course will focus on a different topic drawn from the core areas of philosophy for its subject matter. This course is strongly recommended for Philosophy Specialists and Majors. ***New:*** This course aims to foster a cohesive cohort among philosophy specialists and majors. The course is an intensive seminar that will develop advanced philosophical skills by focusing on textual analysis, argumentative techniques, writing and oral presentation. Students will work closely with the instructor and their peers to develop a conference-style, research-length paper. Each year, the course will focus on a different topic drawn from the core areas of philosophy for its subject matter. This course is strongly recommended for students in the Specialist and Major programs in Philosophy.
Prerequisites	***Current:*** 1.5 credits in Philosophy ***New:*** Any 4.5 credits and [an additional 1.5 credits in PHL courses]
Rationale	The course title and description have been updated for clarity, to more accurately reflect the method of assessment, and to better emphasize the cohort-building nature of the course. The prerequisite has been updated so that it is consistent with other C-level offerings.
Consultation	Approved by the departmental curriculum committee.

PHLD05H3: Advanced Seminar in Ethics

Prerequisites	***Current:*** 3.5 credits in Philosophy, including 2 courses (1.0 credit) at the C-level, at least one of which must be PHLC05H3 or PHLC06H3. ***New:*** 3.5 credits in PHL courses, including [[PHLC05H3 or PHLC06H3] and 0.5 credit at the C-level]
Rationale	The language of the prerequisite has been updated for clarity and consistency, but there is no change otherwise.
Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLD20H3: Advanced Seminar in Theory of Knowledge

Prerequisites	***Current:*** 3.5 credits in Philosophy, including [PHLC20H3 or PHLC22H3] and an additional 0.5 credit at the C-level ***New:*** 3.5 credits in PHL courses, including [[PHLC20H3 or PHLC22H3] and 0.5 credit at the C-level]
Rationale	The language of the prerequisite has been updated for clarity and consistency, but there is no change otherwise.
Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLD35H3: Advanced Seminar in Rationalism

Prerequisites	***Current:*** 3.5 credits in Philosophy, including at least 2 courses (1.0 credit) at the C-level, one of which must be in the history of philosophy. ***New:*** 3.5 credits in PHL courses, including [PHLC35H3 and 0.5 credit at the C-level]
Rationale	The prerequisite has been updated for clarity and consistency, and PHLC35 has been added because it provides important background knowledge in the history of philosophy.
Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLD43H3: Advanced Seminar in History of Analytic Philosophy

Prerequisites	***Current:*** 3.5 credits in Philosophy, including 1.0 credit (2 courses) at the C-level, one of which must be PHLC43H3. ***New:*** 3.5 credits in PHL courses, including [PHLC43H3 and 0.5 credit at the C-level]
Rationale	The language of the prerequisite has been updated for clarity and consistency, but there is no change otherwise.
Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLD78H3: Advanced Seminar in Political Philosophy

Prerequisites	***Current:*** 3.5 credits in Philosophy, including at least 1.0 credit at the C-level ***New:*** 3.5 credits in PHL courses, including 1.0 credit at the C-level
Rationale	The language of the prerequisite has been updated for clarity and consistency, but there is no change otherwise.
Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLD79H3: Advanced Seminar in Metaphysics

Prerequisites	***Current:*** 3.5 credits in Philosophy, at least 1.0 credit at the C-level. ***New:*** 3.5 credits in PHL courses, including 1.0 credit at the C-level
Rationale	The language of the prerequisite has been updated for clarity and consistency, but there is no change otherwise.
Consultation	Approved by the departmental curriculum committee on October 20, 2016.

PHLD87H3: Advanced Seminar in Philosophy of Mind

Prerequisites	***Current:*** 3.5 credits in Philosophy, including at least 2 half credit courses at the C-level, including PHLC95H3 or PHLC86H3. ***New:*** 3.5 credits in PHL courses, including [[PHLC95H3 or PHLC86H3] and 0.5 credit at the C-level]
Rationale	The language of the prerequisite has been updated for clarity and consistency, but there is no change otherwise.
Consultation	Approved by the departmental curriculum committee on October 20, 2016.

Political Science, Department of

3 Program Minor Modifications (Abbreviated Divisional Review)

MAJOR PROGRAM IN POLITICAL SCIENCE (ARTS)

Current Completion Requirements:

Program Requirements
Students must complete at least 8.0 credits in Political Science as follows:

1. **Introduction to Political Science (1.0 credit):**
   POLA01H3 Critical Issues in Politics I
   POLA02H3 Critical Issues in Politics II

2. **Political Theory (1.0 credit):**
   POLB72H3 Introduction to Political Theory
   0.5 credit from among the courses listed in the Political Theory area of focus

3. **Canadian Politics (1.0 credit):**
   POLB50Y3 Canadian Government and Politics

4. **At least two of the following (1.0 credit):**
   POLB80H3 Introduction to International Relations I
   POLB81H3Introduction to International Relations II
   POLB90H3 Comparative Development in International Perspective
   POLB91H3 Comparative Development in Political Perspective
   POLB92H3 ~~Comparative Politics: Revolution, Democracy and Authoritarianism in Modern Europe~~
   Comparative Politics: Revolution, Democracy and Authoritarianism

5. **Methods (1.0 credit):**
   [STAB23H3 Introduction to Statistics for the Social Sciences or equivalent]
   POLC78H3 Political Analysis I

6. **Applications (2.5 credits):**
   2.5 credits in POL or PPG courses of which at least 2.0 must be at the C- and/or D-level

7. **Advanced Applications (0.5 credit)**
   At least 0.5 credit in POL or PPG courses at the D-level

New Completion Requirements:

Program Requirements
Students must complete at least 8.0 credits in Political Science as follows:

1. Introduction to Political Science (1.0 credit):
POLA01H3 Critical Issues in Politics I
POLA02H3 Critical Issues in Politics II

2. Political Theory (1.0 credit):
POLB72H3 Introduction to Political Theory
0.5 credit from among the courses listed in the Political Theory area of focus

3. Canadian Politics (1.0 credit):
POLB50Y3 Canadian Government and Politics

4. At least two of the following (1.0 credit):
POLB80H3 Introduction to International Relations I
POLB81H3 Introduction to International Relations II
POLB90H3 Comparative Development in International Perspective
POLB91H3 Comparative Development in Political Perspective
POLB92H3 Comparative Politics: Revolution, Democracy and Authoritarianism

5. Methods (1.0 credit):
[STAB23H3 Introduction to Statistics for the Social Sciences or equivalent]
POLC78H3 Political Analysis I

6. Applications (2.5 credits):
2.5 credits in POL or PPG courses of which at least 2.0 must be at the C- and/or D-level

7. Advanced Applications (0.5 credit)
At least 0.5 credit in POL or PPG courses at the D-level

Brief Description of the Proposal:

Editorial change to the title for POLB92H3 from 'Comparative Politics: Revolution, Democracy and Authoritarianism in Modern Europe' to 'Comparative Politics: Revolution, Democracy and Authoritarianism'
Rationale

Rationale:

The revised title will more clearly communicate to students the subject matter of the course. This title will better match student interest with the appropriate course in comparative politics. The change in title will not have any impact on the course learning outcomes, topics covered or the methods of assessment that are currently used in the course.
A separate proposal has been submitted for the course.

Impact that the proposal may have on students or other academic units/divisions:

This change does not have any impact on students or other academic units/division

Consultation:

The Political Science Departments faculty have been consulted.
DCC approved: December 15th 2016
Consultation outside the academic unit (where appropriate): Consultation outside the academic unit is not required as no other department at UTSC incorporates POLB92H3 within its curriculum.

Resource Implications:

There are no resource implications with regards to the changes of this proposal.

SPECIALIST PROGRAM IN POLITICAL SCIENCE (ARTS)

Current Completion Requirements:

Program Requirements
Students must complete at least 12.0 full credits in Political Science including:

1. **Introduction to Political Science (1.0 credit):**
   POLA01H3 Critical Issues in Politics I
   POLA02H3 Critical Issues in Politics II

2. **Political Theory (1.0 credit):**
   POLB72H3 Introduction to Political Theory
   0.5 credit from among the courses listed in the Political Theory area of focus

3. **Canadian Politics (1.0 credit):**
   POLB50Y3 Canadian Government and Politics

4. **At least four of the following (2.0 credits):**
   POLB80H3 Introduction to International Relations I
   POLB81H3Introduction to International Relations II
   POLB90H3 Comparative Development in International Perspective
   POLB91H3 Comparative Development in Political Perspective
   POLB92H3 ~~Comparative Politics: Revolution, Democracy and Authoritarianism in Modern Europe~~
   Comparative Politics: Revolution, Democracy and Authoritarianism

5. **Methods (1.0 credit):**
   [STAB23H3 Introduction to Statistics for the Social Sciences or equivalent]
   POLC78H3 Political Analysis I

6. **Applications (5.0 credits):**
   5.0 credits in POL or PPG courses at the C- and/or D-level

7. **Advanced Applications (1.0 credit)**
   At least 1.0 credit in POL or PPG courses at the D-level

New Completion Requirements:

Program Requirements
Students must complete at least 12.0 full credits in Political Science including:

1. Introduction to Political Science (1.0 credit):
POLA01H3 Critical Issues in Politics I
POLA02H3 Critical Issues in Politics II

2. Political Theory (1.0 credit):
POLB72H3 Introduction to Political Theory
0.5 credit from among the courses listed in the Political Theory area of focus

3. Canadian Politics (1.0 credit):
POLB50Y3 Canadian Government and Politics

4. At least four of the following (2.0 credits):
POLB80H3 Introduction to International Relations I
POLB81H3 Introduction to International Relations II
POLB90H3 Comparative Development in International Perspective
POLB91H3 Comparative Development in Political Perspective
POLB92H3 Comparative Politics: Revolution, Democracy and Authoritarianism

5. Methods (1.0 credit):
[STAB23H3 Introduction to Statistics for the Social Sciences or equivalent]
POLC78H3 Political Analysis I

6. Applications (5.0 credits):
5.0 credits in POL or PPG courses at the C- and/or D-level

7. Advanced Applications (1.0 credit)
At least 1.0 credit in POL or PPG courses at the D-level

Brief Description of the Proposal:

Editorial change to title for POLB92H3 from 'Comparative Politics: Revolution, Democracy and Authoritarianism in Modern Europe' to 'Comparative Politics: Revolution, Democracy and Authoritarianism'

Rationale:

The revised title will more clearly communicate to students the subject matter of the course. This title will better match student interest with the appropriate course in comparative politics. The change in title will not have any impact on the course learning outcomes, topics covered or the methods of assessment that are currently used in the course.
A separate proposal has been submitted for the course.

Impact that the proposal may have on students or other academic units/divisions:

This change does not have any impact on students or other academic units/division

Consultation:

Consultation within the academic unit:
The Political Science Departments faculty have been consulted.
DCC approved: December 15th 2016
Consultation outside the academic unit (where appropriate):
Consultation outside the academic unit is not required as no other department at UTSC incorporates POLB92H3 within its curriculum.

Resource Implications:

There will be no changes to the resources required.

MAJOR PROGRAM IN PUBLIC POLICY (ARTS)

Current Completion Requirements:

Program Requirements
Students must pay careful attention to the prerequisites for higher level courses.

Course requirements:
Students must complete 8.0 full credits as follows:

1. 1.0 credit at the A- or B-level in Anthropology, City Studies, Geography, International Development Studies, Political Science, or Sociology. At least 0.5 credits in A-level Political Science are recommended.

We also recommend interested students take introductory courses in departments like City Studies, Economics for Management Studies, Environmental Science, International Development Studies, and Sociology that may reflect their particular substantive interests.

2. Economics for Public Policy (1.0 credit):
[MGEA01H3/(ECMA01H3) and MGEA05H3/(ECMA05H3)]
OR
[MGEA02H3/(ECMA04H3) and MGEA06H3/(ECMA06H3)]

3. Canadian Politics (1.0 credit)
POLB50Y3 Canadian Government and Politics

4. Fundamentals of Public Policy (1.0 credit)
PPGC66H3 Public Policy Making
PPGC67H3 Public Policy in Canada

5. Research Methods (1.0 credit with at least 0.5 credit in quantitative methods)
Quantitative Methods courses include:
ANTC35H3 Quantitative Methods in Anthropology
MGEB11H3/(ECMB11H3) Quantitative Methods in Economics I
GGRA30H3 Geographic Information Systems
POLC11H3 Applied Statistics for Politics and Public Policy

Qualitative Methods courses include:
ANTB19H3 Ethnography and the Comparative Study of Human Societies
GGRC31H3 Qualitative Geographical Methods: Place and Ethnography
POLC78H3 Political Analysis I

6. Applications of Public Policy (3.0 credits from the following list* of Public Policy courses, or other courses with the approval of the supervisor of studies. Of these, 1.0 credit must be from C- or D-level courses in Political Science.)
CITB04H3 City Politics
CITC04H3 Municipal Planning Law in Ontario
CITC07H3 Urban Social Policy
CITC12H3 City Structures and City Choices: Local Government, Management, and Policymaking
CITC15H3 Taxing and Spending: Public Finances in Canadian Cities
CITC16H3 Planning and Governing the Metropolis
CITC18H3 Urban Transportation Policy Analysis
MGEB31H3/(ECMB35H3) Public Decision Making
MGEB32H3/(ECMB36H3) Economic Aspects of Public Policy
MGEC31H3/(ECMC31H3) Economics of the Public Sector: Taxation
MGEC32H3/(ECMC32H3) Economics of the Public Sector: Expenditures
MGEC34H3/(ECMC34H3) Economics of Health Care
MGEC38H3/(ECMC38H3) The Economics of Canadian Public Policy
MGEC91H3/(ECMC91H3) Economics and Government
GGRC13H3 Urban Political Geography
HLTB40H3 Health Policy and Health Systems
HLTC43H3 Politics of Canadian Health Policy
IDSB01H3 Political Economy of International Development
IDSB04H3 Introduction to International/Global Health
MGSC03H3/(MGTC42H3) Public Management
MGSC05H3/(MGTC45H3) The Changing World of Business Government Relations
MGSC12H3 Narrative and Management
POLC36H3 Law and Public Policy
POLC53H3 Canadian Environmental Policy
POLC54H3 Intergovernmental Relations in Canada
POLC57H3 Intergovernmental Relations and Public Policy
POLC65H3 Political Strategy
POLC83H3 Applications of American Foreign Policy
POLC93H3 Public Policies in the United States
POLD50H3 Political Interests, Political Identity, and Public Policy
POLD52H3 Immigration and Canadian Political Development
POLD53H3 Political Disagreement in Canada
POLD67H3 The Limits of Rationality
POLC69H3 Political Economy: International and Comparative Perspectives
POLD89H3 Global Environmental Politics
POLD90H3 Public Policy and Human Development in the Global South
PPGD64H3 Comparative Public Policy
SOCB47H3 Social Inequality
SOCC37H3 Environment and Society
* Many of these courses have prerequisites, please plan accordingly. In addition, we recommend taking methods courses from within your disciplinary major program.

New Completion Requirements:

Program Requirements
Students must complete a total of 8.0 credits as follows:

1. 1.0 credit at the A- or B-level in Anthropology, City Studies, Geography, International Development Studies, Political Science, or Sociology
Note: at least 0.5 credit in A-level Political Science are recommended. We also recommend interested students take introductory courses in disciplines like City Studies, Economics for Management Studies, Environmental Science, International Development Studies, and Sociology that may reflect their particular substantive interests.

2. Economics for Public Policy (1.0 credit):
[MGEA01H3/(ECMA01H3) and MGEA05H3/(ECMA05H3)] or [MGEA02H3/(ECMA04H3) and MGEA06H3/(ECMA06H3)]

3. Canadian Politics (1.0 credit)
POLB50Y3 Canadian Government and Politics

4. Fundamentals of Public Policy (1.0 credit)
PPGC66H3 Public Policy Making
PPGC67H3 Public Policy in Canada

5. Research Methods (1.0 credit, including at least 0.5 credit in quantitative methods)
Quantitative Methods courses include:
ANTC35H3 Quantitative Methods in Anthropology
MGEB11H3/(ECMB11H3) Quantitative Methods in Economics I
GGRA30H3 Geographic Information Systems
POLC11H3 Applied Statistics for Politics and Public Policy
STAB23H3 Introduction to Statistics for the Social Sciences

Qualitative Methods courses include:
ANTB19H3 Ethnography and the Comparative Study of Human Societies
GGRC31H3 Qualitative Geographical Methods: Place and Ethnography
POLC78H3 Political Analysis I

6. Applications of Public Policy (3.0 credits in Public Policy courses,* from the following list or other courses with the approval of the supervisor of studies; of these, 1.0 credit must be at the C- or D-level in POL courses).
CITB04H3 City Politics
CITC04H3 Municipal Planning Law in Ontario
CITC07H3 Urban Social Policy
CITC12H3 City Structures and City Choices: Local Government, Management, and Policymaking
CITC15H3 Taxing and Spending: Public Finances in Canadian Cities
CITC16H3 Planning and Governing the Metropolis
CITC18H3 Urban Transportation Policy Analysis
GGRC13H3 Urban Political Geography
HLTB40H3 Health Policy and Health Systems
HLTC43H3 Politics of Canadian Health Policy
IDSB01H3 Political Economy of International Development
IDSB04H3 Introduction to International/Global Health
MGEB31H3/(ECMB35H3) Public Decision Making
MGEB32H3/(ECMB36H3) Economic Aspects of Public Policy
MGEC31H3/(ECMC31H3) Economics of the Public Sector: Taxation
MGEC32H3/(ECMC32H3) Economics of the Public Sector: Expenditures
MGEC34H3/(ECMC34H3) Economics of Health Care
MGEC38H3/(ECMC38H3) The Economics of Canadian Public Policy
MGEC91H3/(ECMC91H3) Economics and Government
MGSC03H3/(MGTC42H3) Public Management
MGSC05H3/(MGTC45H3) The Changing World of Business Government Relations
MGSC12H3 Narrative and Management
POLC36H3 Law and Public Policy
POLC53H3 Canadian Environmental Policy
POLC54H3 Intergovernmental Relations in Canada
POLC57H3 Intergovernmental Relations and Public Policy
POLC65H3 Political Strategy
POLC69H3 Political Economy: International and Comparative Perspectives
POLC83H3 Applications of American Foreign Policy
POLC93H3 Public Policies in the United States
POLD50H3 Political Interests, Political Identity, and Public Policy
POLD52H3 Immigration and Canadian Political Development
POLD53H3 Political Disagreement in Canada

POLD89H3 Global Environmental Politics
POLD90H3 Public Policy and Human Development in the Global South
PPGD64H3 Comparative Public Policy
SOCB47H3 Social Inequality
SOCC37H3 Environment and Society
* Many of these courses have prerequisites that are not requirements in the Major in Public Policy, please plan accordingly. In addition, we recommend taking methods courses from within your disciplinary Major program.

Brief Description of the Proposal:

POLC69H3 has been added as an optional course to requirement 6- Applications of Public Policy

Rationale:

This new course is designed for both political science and public policy students to fill a gap in the curriculum that was identified in the external review of the Political Science program in 2013-14. The course aims to improve students knowledge of economics and the interactions between markets and the state.

Impact that the proposal may have on students or other academic units/divisions:

Incoming and continuing students now have an additional course to select from towards meeting requirement 6 of the program. Students who are choosing the program as a subject POSt for the first time will not be impacted by this decision.
Program exceptions will be made for continuing students that are currently following requirements of an older Calendar if they wish to take this course towards fulfilling requirement 6 of the program.

Consultation:

The Political Science Departments faculty have been consulted.
DCC Approved: October 3rd 2016

Resource Implications:

There are no resource implications in adding this course to our curriculum.

7 Course Modifications

POLB92H3: Comparative Politics: Revolution, Democracy and Authoritarianism

Calendar Title	***Current:*** Comparative Politics: Revolution, Democracy and Authoritarianism in Modern Europe ***New:*** Comparative Politics: Revolution, Democracy and Authoritarianism
Rationale	The change in title will more clearly communicate to students the subject matter of the course. This title will better match student interest with the appropriate course in comparative politics.
Consultation	UTSC programs using this course: Specialist Program in Political Science, Major Program in Political Science and Minor Program in Political Science. Consultation within the academic unit: The Political Science Departments faculty have been consulted. Consultation outside the academic unit (where appropriate): Consultation outside the academic unit is not required as no other department at UTSC incorporates POLB92H3 within its curriculum. DCC approved: October 3rd 2016

POLC16H3: Chinese Politics

Description	***Current:*** This course will cover Chinese politics and society from 1949 to the present, with an emphasis on the period since 1989. A central theme will be the tensions, challenges and debates that drive decision-making, policy implementation, and social reactions in contemporary China. Area of Focus: Comparative Politics ***New:*** This course covers a range of topics in contemporary Chinese politics and society post 1989. It exposes students to state of the art literature and probes beyond the news headlines. No prior knowledge of China required. Area of Focus: Comparative Politics
Recommended Preparation	***Current:*** Some coursework on Chinese history, language, politics, society, or culture. ***New:***
Rationale	The revised Calendar description better reflects the content of the course, and clarifies that students do not require prior knowledge of China. There is no impact on the course learning outcomes, topics, or methods of assessment.
Consultation	UTSC programs using this course: The Specialist Program in International Development Studies (Arts) lists POLC16H3 as one of the optional courses that could be used towards fulfilling their cluster category requirement (Req 5 in the Calendar) Consultation within the academic unit: The Political Science Departments faculty have been consulted. Consultation outside the academic unit (where appropriate): None. DCC Approved: October 3rd 2016

POLC70H3: Political Thought: Foundations of Justice, Citizenship and Power

Calendar Title	***Current:*** Classic Texts in Political Theory I ***New:*** Political Thought: Foundations of Justice, Citizenship and Power
Rationale	The current title does not clearly convey the focus of the course. The new title will help students identify and select a course that matches their interests and clearly communicate to students the subject matter of the course. Students in Political Science have expressed interest in topics such as justice and citizenship, but they do not always recognize the classic texts of political theory as the way to study them. This title will better match student interest with the appropriate course in political thought.
Consultation	Consultation within the academic unit: The Political Science Departments faculty have been consulted. Consultation outside the academic unit (where appropriate): Consultation outside the academic unit is not required as no other department at UTSC incorporates POLC70H3 within its curriculum. DCC: Approved on October 3rd

POLC71H3: Political Thought: Rights, Revolution and Resistance

Calendar Title	***Current:*** Classic Texts in Political Theory II ***New:*** Political Thought: Rights, Revolution and Resistance
Rationale	The change in title will more clearly communicate to students the subject matter of the course. While students in Political Science express interest in these topics (e.g. rights), they do not always recognize the classic texts of political theory as the way to do so. This title will better match student interest with the appropriate course in political thought.
Consultation	Consultation within the academic unit: The Political Science Departments faculty have been consulted. Consultation outside the academic unit (where appropriate): Consultation outside the academic unit is not required as no other department at UTSC incorporates POLC71H3 within its curriculum. DCC approved: October 3rd

POLC96H3: State Formation and Authoritarianism in the Middle East

Prerequisites	***Current:*** POLB90H3 and POLB91H3 ***New:*** POLB90H3 and [POLB91H3 or POLB92H3]
Rationale	The changes to the prerequisites for the course allow for more students that are interested in comparative politics to engage in POLC96H3.
Consultation	UTSC programs using this course: The Specialist Program in International Development Studies (Arts) lists POLC96H3 as an optional courses that could be used towards fulfilling their cluster category requirement (Req 5 in the Calendar) Consultation within the academic unit: The Political Science Departments faculty have been consulted. Consultation outside the academic unit (where appropriate): The Centre for Critical Development Studies faculty has been consulted. DCC approved: October 3rd 2016

POLC97H3: Protest Politics in the Middle East

Prerequisites	***Current:*** POLB90H3 and POLB91H3 ***New:*** POLB90H3 andm [POLB91H3 or POLB92H3]
Rationale	The changes to the prerequisites for the course allow for more students that are interested in comparative politics to engage in POLC97H3. T
Consultation	UTSC programs using this course: The Specialist Program in International Development Studies (Arts) also POLC97H3 as one of the optional courses that could be used towards fulfilling their cluster category requirement (Req 5 in the Calendar) Consultation within the academic unit: The Political Science Departments faculty have been consulted. Consultation outside the academic unit (where appropriate):

	The Centre for Critical Development Studies faculty has been consulted. DCC approved: October 3rd 2016

POLD92H3: Survival and Demise of Dictatorships

Prerequisites	***Current:*** [1.0 credit from: POLB90H3, POLB91H3, POLB92H3, (POLB93H3)] and [2.0 credits at the C-level in any courses] ***New:*** POLB92H3 and [POLB90H3 or POLB91H3] and [an additional 2.0 credits at the C-level in any courses]
Rationale	POLB92H3 has been added as prerequisite because it provides essential background necessary for POLD92H3. Specifically it covers key terms and concepts.
Consultation	UTSC programs using this course: The Specialist Program in International Development Studies (Arts) lists POLD92H3 as one of the optional courses that could be used towards fulfilling their cluster category requirement (Req 5 in the Calendar). Consultation within the academic unit: The Political Science Departments faculty have been consulted. Consultation outside the academic unit (where appropriate): The Centre for Critical Development Studies faculty has been consulted. DCC Approved: October 3rd 2016

Psychology, Department of

2 Program Minor Modifications (Abbreviated Divisional Review)

SPECIALIST PROGRAM IN NEUROSCIENCE (SCIENCE)

Current Completion Requirements:

Program Requirements
This program requires completion of 14.0 credits:

1. 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 Physical Sciences *or MATA29H3 Calculus I for the Life Sciences* ~~(MATA20H3) Calculus A~~]
   [PHYA10H3 Physics IA *or* PHYA11H3 Physics IB]
   PSYA01H3 Introductory Psychology: Part I
   PSYA02H3 Introductory Psychology: Part II
2. 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]
3. 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 Sensorimotor Systems
   NROC69H3 Synaptic Organization & Physiology of the Brain
   PSYC08H3 Advanced Data Analysis in Psychology
   PSYC62H3 Drugs & the Brain
4. 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
   NROD08H3/BIOD08H3 Theoretical Neuroscience
   NROD63H3 Advanced Neuroscience Laboratory
   NROD66H3 Drug Addiction
   NROD67H3 Psychobiology of Aging
   PSYD17H3 Social Neuroscience
   PSYD33H3 Current Topics in Abnormal Psychology
   PSYD66H3 Current Topics in Human Brain & Behaviour
   Note: 0.5 credit of NROD98Y3, Thesis in Neuroscience, may also be counted towards Requirement 4.

New Completion Requirements:

Program Requirements

This program requires completion of 14.0 credits:

1. 4.0 credits as follows:
BIOA01H3 Life on Earth: Unifying Principles
BIOA02H3 Life on Earth: Form, Function and Interactions
CHMA10H3 Introductory Chemistry I: Structure and Bonding
CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms
[MATA30H3 Calculus I for Physical Sciences *or* MATA29H3 Calculus I for the Life Sciences]
[PHYA10H3 Physics IA *or* PHYA11H3 Physics IB]
PSYA01H3 Introductory Psychology: Part I
PSYA02H3 Introductory Psychology: Part II

2. 3.5 credits as follows:
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]

3. 5.5 credits as follows:
BIOC12H3 Biochemistry I: Proteins & Enzymes
BIOC13H3 Biochemistry II: Bioenergetics & Metabolism
BIOC32H3 Human Physiology I
BIOC33H3 Human Physiology II: Lecture & Laboratory
NROC34H3 Neuroethology (Invertebrate Neurobiology)
NROC61H3 Learning & Motivation
NROC63H3 Neuroscience Laboratory
NROC64H3 Sensorimotor Systems
NROC69H3 Synaptic Organization & Physiology of the Brain
PSYC08H3 Advanced Data Analysis in Psychology
PSYC62H3 Drugs & the Brain

4. 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
NROD08H3/BIOD08H3 Theoretical Neuroscience
NROD63H3 Advanced Neuroscience Laboratory
NROD66H3 Drug Addiction
NROD67H3 Psychobiology of Aging
PSYD17H3 Social Neuroscience
PSYD33H3 Current Topics in Abnormal Psychology
PSYD66H3 Current Topics in Human Brain & Behaviour
Note: 0.5 credit of NROD98Y3, Thesis in Neuroscience, may also be counted towards Requirement 4.

Brief Description of the Proposal:

1. (MATA20H3) has been removed from component 1 of the course completion requirements.
2. MATA29H3 has been added as optional course to complete component 1 of the course completion requirements.

Rationale:

MATA29H is a new course that can be used as an alternative calculus course to MATA30H3. Both calculus course options are being provided to neuroscience specialists as students who are interested in taking PHYA10 to meet the physics requirement of the program will be required to take MATA30. Those eligible to complete PHYA11 have the option of taking either MATA29 or MATA30.

Impact that the proposal may have on students or other academic units/divisions:

There will be no impact on current or future students of the program.

Consultation:

This change has been discussed with both the Chair and Associate Chair of Mathematics and Statistics (July 2016 and September 2016).
DCC approval on October 28, 2016.

Resource Implications:

none

SPECIALIST (CO-OPERATIVE) PROGRAM IN NEUROSCIENCE (SCIENCE)

Current Completion Requirements:

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: 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.

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.

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:

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

New Completion Requirements:

Program 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:

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

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, and [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. 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.
Brief Description of the Proposal:
Add square brackets around NROC61H3 or NORC64H3 in the Work Term Requirements
Rationale:
Editorial change to make it clearer to students that only one of NROC61 or NROC64 must be completed prior to the first work term.
Impact that the proposal may have on students or other academic units/divisions:
none
Consultation:
Editorial change - no consultation required.
Resource Implications:
none

1 Retired Course

PSYC68H3: Diseases of the Brain and Mind

Rationale:
This course was designed and taught by faculty of the brain sciences research centre at Sunnybrook Health Sciences Centre. The faculty at Sunnybrook have confirmed that they are no longer able to offer the course, and it will no longer be offered.

23 Course Modifications

NROD66H3: Drug Addiction

Corequisites	***Current:*** PSYC08H3 ***New:***
Recommended Preparation	***Current:*** ***New:*** PSYC08H3
Rationale	1. PSYC08H3 has been changed from a corequisite to recommended preparation because, although it may be beneficial to some students ability to engage on a more in-depth level with the content presented in NROD66H3, it is not necessary to students success in the course. Moreover, administratively the corequisite has been difficult to enforce and has been waived on many occasions.
Consultation	This change has been discussed with the course instructor, Dr. Suzanne Erb and was been approved by the the Curriculum Committee on August 18, 2016.

PSYB57H3: Introduction to Cognitive Psychology

Calendar Title	***Current:*** Memory and Cognition ***New:*** Introduction to Cognitive Psychology
Description	***Current:*** Discussion of experiments and theories in human memory and cognition. This course provides an analysis of the research on encoding, storage and retrieval of information in human memory. Also surveyed are the related topics of attention, thinking, and problem solving, and their role in a general model of information processing. ***New:*** A discussion of theories and experiments examining human cognition. This includes the history of the study of human information processing and current thinking about mental computation. Topics covered include perception, attention, thinking, memory, visual imagery, language and problem solving.
Recommended Preparation	***Current:*** PSYB07H3 or STAB22H3 or their equivalent ***New:***
Rationale	The revisions to the course title and description reflect a slight reorganization to the course content, supporting the teaching expertise of the faculty member now teaching the course. The recommended preparation in statistics has been removed to bring the course in line with all other content based B-level Psychology courses and does not impact the structure or organization of the course.
Consultation	The minor modifications have been discussed and approved by the Chair of the Department of Psychology and previous PSYB57 course instructors. The DCC approved all changes on January 4, 2017

PSYC02H3: Scientific Communication in Psychology

Prerequisites	***Current:*** PSYB01H3 and [PSYB07H3 or (SOCB06H3) or STAB22H3] ***New:*** [PSYB01H3 or PSYB04H3] and [PSYB07H3 or STAB23H3 or STAB22H3]
Rationale	1. PSYB04H3 has been added as an optional prerequisite because it was created for students who may be more interested in consuming and evaluating research findings as opposed to producing novel research (which is the focus of PSYB01, the methodology course requirement for students in our specialist programs). Thus, this course is intended for Psychology Majors and Minors as well as Mental Health Studies Majors. As not to preclude these students from taking PSYC02 (if space permits), PSYB04 has been added as an \"or\" option to PSYB01. 2. STAB23H3 has been added as an optional prerequisite because it covers similar topics presented in both STAB22 and PSYB07 (including descriptive, inferential and multivariate stats). Historically, SOCB06H3 Social Statistics was an acceptable statistics requirement for our programs and courses. The department sees STAB23 as a replacement for SOCB06.
Consultation	Professor John Scherk from Computer and Mathematical Sciences was consulted on October 29, 2015 regarding the additional of STAB23 as an equivalent statistics requirement to the major and minor programs in psychology and mental health studies. DCC approval on August 4, 2015.

PSYC03H3: Computers in Psychological Research: Advanced Topics

Prerequisites	***Current:*** [PSYB07H3 or STAB22H3] and PSYB03H3 ***New:*** [PSYB07H3 or STAB22H3 or STAB23H3] and PSYB03H3
Rationale	STAB23H3 covers similar topics presented in both STAB22 and PSYB07 (including descriptive, inferential and multivariate stats). Historically, SOCB06H3 Social Statistics was an acceptable statistics requirement for our programs and courses. The department sees STAB23 as a replacement for SOCB06.
Consultation	Professor John Scherk from Computer and Mathematical Sciences was consulted on October 29, 2015 regarding the additional of STAB23 as an equivalent statistics requirement to the major and minor programs in psychology and mental health studies. DCC approval on August 4, 2015.

PSYC04H3: Brain Imaging Laboratory

Prerequisites	***Current:*** PSYB01H3 and [PSYB07H3 or STAB22H3] ***New:*** [PSYB01H3 or PSYB04H3] and [PSYB07H3 or STAB22H3 or STAB23H3]
Rationale	1. PSYB04H3 has been added as an optional prerequisite because it was created for students who may be more interested in consuming and evaluating research findings as opposed to producing novel research (which is the focus of PSYB01, the methodology course requirement for students in our specialist programs). Thus, this course is intended for Psychology Majors and Minors as well as Mental Health Studies Majors. As not to preclude these students from taking PSYC04 (if space permits), PSYB04 has been added as an \"or\" option to PSYB01. 2. STAB23H3 has been added as an optional prerequisite because it covers similar topics presented in both STAB22 and PSYB07 (including descriptive, inferential and multivariate stats). Historically, SOCB06H3 Social Statistics was an acceptable statistics requirement for our programs and courses. The department sees STAB23 as a replacement for SOCB06.
Consultation	Professor John Scherk from Computer and Mathematical Sciences was consulted on October 29, 2015 regarding the additional of STAB23 as an equivalent statistics requirement to the major and minor programs in psychology and mental health studies. DCC approval on August 4, 2015.

PSYC05H3: Human Movement Laboratory

Prerequisites	***Current:*** PSYB01H3 and [PSYB07H3 or STAB22H3] ***New:*** [PSYB01H3 or PSYB04H3] and [PSYB07H3 or STAB22H3 or STAB23H3]
Rationale	1. PSYB04H3 is being added as an optional prerequisite because it was created for students who may be more interested in consuming and evaluating research findings as opposed to producing novel research (which is the focus of PSYB01, the methodology course requirement for students in our specialist programs). Thus, this course is intended for Psychology Majors and Minors as well as Mental Health Studies Majors. As not to preclude these students from taking PSYC05 (if space permits), PSYB04 has been added as an \"or\" option to PSYB01. 2. STAB23H3 has been added as an optional prerequisite because it covers similar topics presented in both STAB22 and PSYB07 (including descriptive, inferential and multivariate stats). Historically, SOCB06H3 Social Statistics was an acceptable statistics requirement for our programs and courses. The department sees STAB23 as a replacement for SOCB06.

Consultation	Professor John Scherk from Computer and Mathematical Sciences was consulted on October 29, 2015 regarding the additional of STAB23 as an equivalent statistics requirement to the major and minor programs in psychology and mental health studies. DCC approval on August 4, 2015.

PSYC06H3: Psychophysiology Laboratory

Prerequisites	***Current:*** PSYB01H3 and [PSYB07H3 or STAB22H3] and PSYC02H3 ***New:*** [PSYB01H3 or PSYB04H3] and [PSYB07H3 or STAB22H3 or STAB23H3] and PSYC02H3
Rationale	1. PSYB04H3 has been added as an optional prerequisite because it was created for students who may be more interested in consuming and evaluating research findings as opposed to producing novel research (which is the focus of PSYB01, the methodology course requirement for students in our specialist programs). Thus, this course is intended for Psychology Majors and Minors as well as Mental Health Studies Majors. As not to preclude these students from taking PSYC06 (if space permits), PSYB04 has been added as an \"or\" option to PSYB01. 2. STAB23H3 has been added as an optional prerequisite because it covers similar topics presented in both STAB22 and PSYB07 (including descriptive, inferential and multivariate stats). Historically, SOCB06H3 Social Statistics was an acceptable statistics requirement for our programs and courses. The department sees STAB23 as a replacement for SOCB06.
Consultation	Professor John Scherk from Computer and Mathematical Sciences was consulted on October 29, 2015 regarding the additional of STAB23 as an equivalent statistics requirement to the major and minor programs in psychology and mental health studies. DCC approval on August 4, 2015.

PSYC08H3: Advanced Data Analysis in Psychology

Prerequisites	***Current:*** [PSYB07H3 or (SOCB06H3) or STAB22H3] and one additional B-level half-credit in Psychology ***New:*** [PSYB07H3 or STAB23H3 or STAB22H3] and [an additional 0.5 credit at the B-level in Psychology]
Rationale	STAB23H3 covers similar topics presented in both STAB22 and PSYB07 (including descriptive, inferential and multivariate stats). Historically, SOCB06H3 Social Statistics was an acceptable statistics requirement for our programs and courses. The department sees STAB23 as a replacement for SOCB06.
Consultation	Professor John Scherk from Computer and Mathematical Sciences was consulted on October 29, 2015 regarding the additional of STAB23 as an equivalent statistics requirement to the major and minor programs in psychology and mental health studies. DCC approval on August 4, 2015.

PSYC09H3: Applied Multiple Regression in Psychology

Prerequisites	***Current:*** [PSYB07H3 or STAB22H3] and an additional 0.5 credit at the B-level in Psychology ***New:*** [PSYB07H3 or STAB22H3 or STAB23H3] and an additional 0.5 credit at the B-level in Psychology

Exclusions	***Current:*** ***New:*** MGEC11H3
Rationale	1. STAB23H3 has been added as an option to the prerequisites because it covers similar topics presented in both STAB22 and PSYB07 (including descriptive, inferential and multivariate stats). Historically, SOCB06H3 Social Statistics was an acceptable statistics requirement for our programs and courses. The department sees STAB23 as a replacement for SOCB06. 2. MGEC11H3 has been added as an exclusion because it presents content of considerable overlap with PSYC09.
Consultation	Professor John Scherk from Computer and Mathematical Sciences was consulted on October 29, 2015 regarding the additional of STAB23 as an equivalent statistics requirement to the major and minor programs in psychology and mental health studies. DCC approval on August 4, 2015. Both the instructor of PSYC09 and the Associate Chair of Psychology have been consulted and are in agreement with the proposed MGEC11 exclusion. DCC approval on Nov. 27, 2015.

PSYC11H3: Social Psychology Laboratory

Prerequisites	***Current:*** PSYB01H3 and [PSYB07H3 or (SOCB06H3) or STAB22H3] and PSYB10H3 ***New:*** [PSYB01H3 or PSYB04H3] and [PSYB07H3 or STAB22H3 or STAB23H3] and PSYB10H3
Rationale	1. PSYB04H3 has been added as an optional prerequisite because it was created for students who may be more interested in consuming and evaluating research findings as opposed to producing novel research (which is the focus of PSYB01, the methodology course requirement for students in our specialist programs). Thus, this course is intended for Psychology Majors and Minors as well as Mental Health Studies Majors. As not to preclude these students from taking PSYC11 (if space permits), PSYB04 has been added as an \"or\" option to PSYB01. 2. STAB23H3 has been added as an optional prerequisite because it covers similar topics presented in both STAB22 and PSYB07 (including descriptive, inferential and multivariate stats). Historically, SOCB06H3 Social Statistics was an acceptable statistics requirement for our programs and courses. The department sees STAB23 as a replacement for SOCB06.
Consultation	Professor John Scherk from Computer and Mathematical Sciences was consulted on October 29, 2015 regarding the additional of STAB23 as an equivalent statistics requirement to the major and minor programs in psychology and mental health studies. DCC approval on August 4, 2015.

PSYC12H3: The Psychology of Prejudice

Prerequisites	***Current:*** [PSYB07H3 or (SOCB06H3) or STAB22H3] and PSYB10H3 plus one additional B-level half credit in PSY ***New:*** [PSYB07H3 or STAB22H3 or STAB23H3] and PSYB10H3 and [an additional 0.5 credit at the B-level in PSY courses]
Rationale	STAB23H3 has been added as an optional prerequisite because it covers similar topics presented in both STAB22 and PSYB07 (including descriptive, inferential and multivariate stats). Historically, SOCB06H3 Social Statistics was an acceptable statistics requirement for our programs and courses. The department sees STAB23 as a replacement for SOCB06.
Consultation	Professor John Scherk from Computer and Mathematical Sciences was consulted on October 29, 2015 regarding the additional of STAB23 as an equivalent statistics requirement to the major and minor programs in psychology and mental health studies

	DCC approval on August 4, 2015.

PSYC13H3: Social Cognition: Understanding Ourselves and Others

Prerequisites	***Current:*** [PSYB10H3 or PSYB57H3] and [PSYB07H3 or STAB22H3] ***New:*** [PSYB10H3 or PSYB57H3] and [PSYB07H3 or STAB22H3 or STAB23H3]
Rationale	STAB23H3 has been added as an optional prerequisite because it covers similar topics presented in both STAB22 and PSYB07 (including descriptive, inferential and multivariate stats). Historically, SOCB06H3 Social Statistics was an acceptable statistics requirement for our programs and courses. The department sees STAB23 as a replacement for SOCB06.
Consultation	Professor John Scherk from Computer and Mathematical Sciences was consulted on October 29, 2015 regarding the additional of STAB23 as an equivalent statistics requirement to the major and minor programs in psychology and mental health studies. DCC approval on August 4, 2015.

PSYC14H3: Cross-Cultural Social Psychology

Prerequisites	***Current:*** [PSYB07H3 or (SOCB06H3) or STAB22H3] and PSYB10H3 plus one additional B-level half-credit in PSY ***New:*** [PSYB07H3 or STAB22H3 or STAB23H3] and PSYB10H3 and [an additional 0.5 credit at the B-level in PSY courses]
Rationale	STAB23H3 has been added as an optional prerequisite because it covers similar topics presented in both STAB22 and PSYB07 (including descriptive, inferential and multivariate stats). Historically, SOCB06H3 Social Statistics was an acceptable statistics requirement for our programs and courses. The department sees STAB23 as a replacement for SOCB06.
Consultation	Professor John Scherk from Computer and Mathematical Sciences was consulted on October 29, 2015 regarding the additional of STAB23 as an equivalent statistics requirement to the major and minor programs in psychology and mental health studies. DCC approval on August 4, 2015.

PSYC26H3: Developmental Psychology Laboratory

Description	***Current:*** This course introduces conceptual and practical issues concerning research in developmental psychology. Developmental psychology focuses on the process of change within and across different phases of the life-span. Reflecting the broad range of topics in this area, there are diverse research methods, including techniques for studying infant behaviour as well as procedures for studying development in children, adolescents, and adults. This course will cover a representative sample of some of these approaches. ***New:*** This course introduces conceptual and practical issues concerning research in developmental psychology. Developmental psychology focuses on the process of change within and across different phases of the life-span. Reflecting the broad range of topics in this area, there are diverse research methods, including techniques for studying infant behaviour as well as procedures for studying development in children, adolescents, and adults. This course will cover a representative sample of some of these approaches.
Prerequisites	***Current:*** PSYB01H3 and [PSYB07H3 or (SOCB06H3) or STAB22H3] and PSYB20H3 ***New:*** [PSYB01H3 or PSYB04H3] and [PSYB07H3 or STAB22H3 or STAB23H3] and PSYB20H3

Rationale	1. PSYB04H3 has been added as an optional prerequisite because it was created for students who may be more interested in consuming and evaluating research findings as opposed to producing novel research (which is the focus of PSYB01, the methodology course requirement for students in our specialist programs). Thus, this course is intended for Psychology Majors and Minors as well as Mental Health Studies Majors. As not to preclude these students from taking PSYC26 (if space permits), PSYB04 has been added as an \"or\" option to PSYB01. 2. STAB23H3 has been added as an optional prerequisite because it covers similar topics presented in both STAB22 and PSYB07 (including descriptive, inferential and multivariate stats). Historically, SOCB06H3 Social Statistics was an acceptable statistics requirement for our programs and courses. The department sees STAB23 as a replacement for SOCB06.
Consultation	Professor John Scherk from Computer and Mathematical Sciences was consulted on October 29, 2015 regarding the additional of STAB23 as an equivalent statistics requirement to the major and minor programs in psychology and mental health studies. DCC approval on August 4, 2015.

PSYC31H3: Clinical Neuropsychology

Prerequisites	***Current:*** PSYB01H3 and [PSYB07H3 or (SOCB06H3) or STAB22H3] and PSYB32H3 and PSYB65H3 ***New:*** [PSYB01H3 or PSYB04H3] and [PSYB07H3 or STAB22H3 or STAB23H3] and PSYB32H3 and PSYB65H3
Rationale	1. PSYB04H3 has been added as an optional prerequisite because it was created for students who may be more interested in consuming and evaluating research findings as opposed to producing novel research (the focus of PSYB01). Thus, this course is intended for Psychology Major and Minors as well as Mental Health Studies Majors. As not to preclude majors from taking PSYC31, PSYB04 has been added as an \"or\" option to PSYB01, the methodology course requirement for students in our specialist programs. 2. STAB23H3 has been added as an optional prerequisite because it covers similar topics presented in both STAB22 and PSYB07 (including descriptive, inferential and multivariate stats). Historically, SOCB06H3 Social Statistics was an acceptable statistics requirement for our programs and courses. The department sees STAB23 as a replacement for SOCB06.
Consultation	Professor John Scherk from Computer and Mathematical Sciences was consulted on October 29, 2015 regarding the additional of STAB23 as an equivalent statistics requirement to the major and minor programs in psychology and mental health studies. DCC approval on August 4, 2015.

PSYC32H3: Clinical Neuropsychology Laboratory

Prerequisites	***Current:*** PSYB01H3 and [PSYB07H3 or (SOCB06H3) or STAB22H3] and PSYB32H3 and PSYB65H3 ***New:*** [PSYB01H3 or PSYB04H3] and [PSYB07H3 or STAB22H3 or STAB23H3] and PSYB32H3 and PSYB65H3
Rationale	1. PSYB04H3 has been added as an optional prerequisite because it was created for students who may be more interested in consuming and evaluating research findings as opposed to producing novel research (which is the focus of PSYB01, the methodology course requirement for students in our specialist programs). Thus, this course is intended for Psychology Majors and Minors as well as Mental Health Studies Majors. As not to preclude these students from taking PSYC32 (if space permits), PSYB04 has been added as an \"or\" option to PSYB01.

	2. STAB23H3 has been added as an optional prerequisite because it covers similar topics presented in both STAB22 and PSYB07 (including descriptive, inferential and multivariate stats). Historically, SOCB06H3 Social Statistics was an acceptable statistics requirement for our programs and courses. The department sees STAB23 as a replacement for SOCB06.
Consultation	Professor John Scherk from Computer and Mathematical Sciences was consulted on October 29, 2015 regarding the additional of STAB23 as an equivalent statistics requirement to the major and minor programs in psychology and mental health studies. DCC approval on August 4, 2015

PSYC35H3: Advanced Personality Psychology

Prerequisites	***Current:*** [PSYB07H3 or (SOCB06H3) or STAB22H3] and PSYB30H3 plus one additional B-level half-credit in PSY ***New:*** [PSYB07H3 or STAB22H3 or STAB23H3] and PSYB30H3 and [an additional 0.5 credit at the B-level in PSY courses]
Rationale	STAB23H3 has been added as an optional prerequisite because it covers similar topics presented in both STAB22 and PSYB07 (including descriptive, inferential and multivariate stats). Historically, SOCB06H3 Social Statistics was an acceptable statistics requirement for our programs and courses. The department sees STAB23 as a replacement for SOCB06.
Consultation	Professor John Scherk from Computer and Mathematical Sciences was consulted on October 29, 2015 regarding the additional of STAB23 as an equivalent statistics requirement to the major and minor programs in psychology and mental health studies. DCC approval on August 4, 2015.

PSYC52H3: The Cognitive Neuroscience of Attention

Prerequisites	***Current:*** [PSYB51H3 or PSYB57H3] and [PSYB07H3 or STAB22H3] ***New:*** [PSYB51H3 or PSYB57H3] and [PSYB07H3 or STAB22H3 or STAB23H3]
Exclusions	***Current:*** Exclusion: PSY475H ***New:*** EPSY475H
Rationale	STAB23H3 has been added as an optional prerequisite because it covers similar topics presented in both STAB22 and PSYB07 (including descriptive, inferential and multivariate stats). Historically, SOCB06H3 Social Statistics was an acceptable statistics requirement for our programs and courses. The department sees STAB23 as a replacement for SOCB06.
Consultation	Professor John Scherk from Computer and Mathematical Sciences was consulted on October 29, 2015 regarding the additional of STAB23 as an equivalent statistics requirement to the major and minor programs in psychology and mental health studies. DCC approval on August 4, 2015.

PSYC56H3: Music Cognition

Description	***Current:*** Studies the perceptual and cognitive processing involved in musical perception and performance. This class acquaints students with the basic concepts and issues involved in the understanding of musical passages. Topics will include discussion of the physical and psychological dimensions of sound, elementary music theory, pitch perception and melodic organization, the perception of rhythm and time, musical memory, musical performance, and emotion and meaning in music. ***New:*** Studies the perceptual and cognitive processing involved in musical perception and performance. This class acquaints students with the basic concepts and issues involved in the understanding of musical passages. Topics will include discussion of the physical and psychological dimensions of sound, elementary music theory, pitch perception and melodic organization, the perception of rhythm and time, musical memory, musical performance, and emotion and meaning in music.
Prerequisites	***Current:*** [PSYA01H3 and PSYA02H3] and [PSYB07H3 or (SOCB06H3) or STAB22H3] and a PSYB50-series half-credit ***New:*** [PSYA01H3 and PSYA02H3] and [PSYB07H3 or STAB22H3 or STAB23H3] and [an addtional 0.5 credit from the PSYB50-series courses]
Rationale	STAB23H3 has been added as an optional prerequisite because it covers similar topics presented in both STAB22 and PSYB07 (including descriptive, inferential and multivariate stats). Historically, SOCB06H3 Social Statistics was an acceptable statistics requirement for our programs and courses. The department sees STAB23 as a replacement for SOCB06.
Consultation	Professor John Scherk from Computer and Mathematical Sciences was consulted on October 29, 2015 regarding the additional of STAB23 as an equivalent statistics requirement to the major and minor programs in psychology and mental health studies. DCC approval on August 4, 2015.

PSYC57H3: Cognitive Neuroscience of Decision Making

Prerequisites	***Current:*** [PSYB07H3 or STAB22H3] and PSYB65H3 ***New:*** [PSYB07H3 or STAB22H3 or STAB23H3] and PSYB65H3
Rationale	STAB23H3 has been added as an optional prerequisite because it covers similar topics presented in both STAB22 and PSYB07 (including descriptive, inferential and multivariate stats). Historically, SOCB06H3 Social Statistics was an acceptable statistics requirement for our programs and courses. The department sees STAB23 as a replacement for SOCB06.
Consultation	Professor John Scherk from Computer and Mathematical Sciences was consulted on October 29, 2015 regarding the additional of STAB23 as an equivalent statistics requirement to the major and minor programs in psychology and mental health studies. DCC approval on August 4, 2015.

PSYC58H3: Cognitive Psychology Laboratory

Description	***Current:*** This course introduces conceptual and practical issues concerning research in cognitive psychology. Students will be introduced to current research methods through a series of practical exercises conducted on computers. By the end of the course, students will be able to program experiments, manipulate data files, and conduct basic data analyses. ***New:*** This course introduces conceptual and practical issues concerning research in cognitive psychology. Students will be introduced to current research methods through a series of practical exercises conducted on computers. By the end of the course, students will be able to program experiments, manipulate data files, and conduct basic data analyses.
Prerequisites	***Current:*** PSYB01H3 and [PSYB07H3 or (SOCB06H3) or STAB22H3] and [PSYB51H3 or PSYB57H3] ***New:*** [PSYB01H3 or PSYB04H3] and [PSYB07H3 or STAB22H3 or STAB23H3] and [PSYB51H3 or PSYB57H3]
Rationale	1. PSYB04H3 has been added as an optional prerequisite because it was created for students who may be more interested in consuming and evaluating research findings as opposed to producing novel research (which is the focus of PSYB01, the methodology course requirement for students in our specialist programs). Thus, this course is intended for Psychology Majors and Minors as well as Mental Health Studies Majors. As not to preclude these students from taking PSYC58 (if space permits), PSYB04 has been added as an \"or\" option to PSYB01. 2. STAB23H3 has been added as an optional prerequisite because it covers similar topics presented in both STAB22 and PSYB07 (including descriptive, inferential and multivariate stats). Historically, SOCB06H3 Social Statistics was an acceptable statistics requirement for our programs and courses. The department sees STAB23 as a replacement for SOCB06.
Consultation	Professor John Scherk from Computer and Mathematical Sciences was consulted on October 29, 2015 regarding the additional of STAB23 as an equivalent statistics requirement to the major and minor programs in psychology and mental health studies. DCC approval on August 4, 2015.

PSYC62H3: Drugs and the Brain

Description	***Current:*** An examination of behavioural and neurobiological mechanisms underlying the phenomenon of drug dependence. Topics will include principles of behavioural pharmacology and pharmacokinetics, neurobiological mechanisms of drug action, and psychotropic drug classification. In addition, concepts of physical and psychological dependence, tolerance, sensitization, and reinforcement and aversion will also be covered. ***New:*** An examination of behavioural and neurobiological mechanisms underlying the phenomenon of drug dependence. Topics will include principles of behavioural pharmacology and pharmacokinetics, neurobiological mechanisms of drug action, and psychotropic drug classification. In addition, concepts of physical and psychological dependence, tolerance, sensitization, and reinforcement and aversion will also be covered.
Prerequisites	***Current:*** [PSYB07H3 or STAB22H3] and [at least one of PSYB64H3, PSYB65H3 or NROB60H3] and [one additional B-level or C-level half credit in PSY or NRO] ***New:*** [PSYB07H3 or STAB22H3 or STAB23H3] and [at least 0.5 credit chosen from the following: PSYB64H3, PSYB65H3 or NROB60H3] and [an additional 0.5 credit at the B-level or C-level in PSY or NRO courses]
Rationale	STAB23H3 has been added as an optional prerequisite because it covers similar topics presented in both STAB22 and PSYB07 (including descriptive, inferential and multivariate stats). Historically, SOCB06H3 Social Statistics was an acceptable statistics requirement for our programs and courses. The department sees STAB23 as a replacement for SOCB06.

Consultation	Professor John Scherk from Computer and Mathematical Sciences was consulted on October 29, 2015 regarding the additional of STAB23 as an equivalent statistics requirement to the major and minor programs in psychology and mental health studies. DCC approval on August 4, 2015.

PSYD51H3: Current Topics in Perception

Description	***Current:*** The course provides an intensive examination of selected topics in recent research on perception. Topics may include research in vision, action, touch, hearing and multisensory integration. Selected readings will cover psychological and neuropsychological findings, neurophysiological results, synaesthesia and an introduction to the Bayesian mechanisms of multisensory integration. ***New:*** This course provides an intensive examination of selected topics in recent research on perception. Topics may include research in vision, action, touch, hearing and multisensory integration. Selected readings will cover psychological and neuropsychological findings, neurophysiological results, synaesthesia and an introduction to the Bayesian mechanisms of multisensory integration.
Exclusions	***Current:*** ***New:*** PSYD54H3
Rationale	PSYD54H3 Current Topics in Visual Recognition and PSYD51H3 Current Topics in Perception should be considered exclusionary courses. Although PSYD54 does cover high-level visual processing from a neuroscientific perspective, it also takes an integrative approach which covers perception topic components contained in PSYD51.
Consultation	The Departmental Curriculum Committee approved this change when the course proposal for PSYD54 was approved, August 26, 2016.