FOR APPROVAL **PUBLIC** **OPEN SESSION**

TO: UTSC Academic Affairs Committee

SPONSOR: Prof. William Gough, Vice-Principal Academic and Dean
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PRESENTER: Prof. Katherine Larson: Vice-Dean Teaching, Learning & Undergraduate Programs

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DATE: April 13, 2023 for May 1, 2023

AGENDA ITEM: 5

ITEM IDENTIFICATION:

Major Modification: New Major (Co-operative)/Specialist (Co-operative) programs, Departments of Anthropology, Biological Sciences, and Psychology, UTSC (for approval)

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, 2021, Section 4*)." Under section 5.6 of its terms of reference, the Committee is responsible for approval of "Major and minor modifications to existing degree programs." The AAC has responsibility for the approval of Major and Minor modifications to existing programs as defined by the University of Toronto Quality Assurance Process (*UTQAP, Section 3.1*).

GOVERNANCE PATH:

1. **UTSC Academic Affairs Committee [For Approval] (May 1, 2023)**

PREVIOUS ACTION TAKEN:

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

HIGHLIGHTS:

UTSC proposes to introduce 12 new Co-operative Majors and Co-operative Specialists, where there are existing Majors and Specialists in the same subjects, in the Departments of Biological Sciences, Anthropology and Psychology, as follows:

- Specialist (Co-operative) and Major (Co-operative) in Evolutionary Anthropology where there is an existing Specialist and Major in Evolutionary Anthropology
- Major (Co-operative) in Biology where there is an existing Major in Biology
- Major (Co-operative) in Conservation and Biodiversity where there is an existing Major in Conservation and Biodiversity
- Specialist (Co-operative) and Major (Co-operative) in Human Biology where there is an existing Specialist and Major in Human Biology
- Specialist (Co-operative) in Integrative Biology where there is an existing Specialist in Integrative Biology
- Major (Co-operative) in Molecular Biology, Immunology and Disease where there is an existing Major in Molecular Biology, Immunology and Disease
- Major (Co-operative) in Plant Biology where there is an existing Major in Plant Biology
- Major (Co-operative) in Mental Health Studies where there is an existing Major in Mental Health Studies
- Major (Co-operative) in Neuroscience where there is an existing Major in Neuroscience
- Major (Co-operative) in Psychology where there is an existing Major in Psychology

These new Co-op offerings are proposed to achieve two important goals: to offer students new pathways to the completion of a Co-op program of study; and to provide for essential growth in life science programs and work-integrated learning offerings. These goals are in line with the Experiential Learning priorities laid out in UTSC's Strategic Plan, Inspiring Inclusive Excellence (2020-2025), and the need for expanded undergraduate programs to serve the Scarborough Academy of Medicine and Integrated Health (SAMIH) currently in development at UTSC.

Students who enter UTSC in the Life Sciences Co-op admissions category currently have limited choices for programs of study, focused on Specialist offerings, with the result that Arts & Science Co-op retention rates from first to second year are markedly lower in Life Sciences than in other fields (57% vs. 74% average across all other fields 2019-2022). Similarly, across the Psychological and Health Sciences programs, Co-op is currently offered mainly in Specialist programs. However, students are increasingly choosing to enrol in two Majors or a Major and two Minors rather than a Specialist, while at the same time, market demand for Co-op is strong with applications to existing Co-op offerings in the Psychological & Health Sciences and the Life Sciences admissions

categories having doubled since 2017. Adding Co-op offerings as Majors in the sciences will increase the number of students who can complete their preferred Life Sciences program in a Co-op format.

The proposed new Co-op programs are also an integral part of the development of SAMIH, which includes plans for a significant increase in domestic undergraduate enrolment at UTSC and will provide a hub for training and strengthening connections among healthcare providers in the region. Adding new Co-op programs is expected to attract new applicants to UTSC in order to support the required new intake growth and will support the Certificate in Pathways to Health Professions (being proposed separately) by ensuring that every Major or Specialist affiliated with the proposed Certificate is available in both Co-op and non-Co-op programs. Together these initiatives help to solidify UTSC's commitment to ensuring relevant experiential opportunities for future healthcare professionals.

As is true for other Co-op programs, the proposed Co-op programs add a Work Integrated Learning (WIL) component that combines academic studies with meaningful and academically relevant paid full-time work terms in the public, private, and/or non-profit sectors. In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of three Co-op work terms.

Extensive consultation has taken place at UTSC led by the Director of Arts & Science Co-op and the Vice Dean, Recruitment, Enrolment and Student Success, with all Science Co-op departments, the Co-op Steering Committee, Chairs and Academic Directors, Chairs and Deans, and with UTSC students.

FINANCIAL IMPLICATIONS:

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

RECOMMENDATION:

Be It Resolved,

THAT the proposed new Major (Co-operative) and Specialist (Co-operative) programs, in the Departments of Anthropology, Biological Sciences, and Psychology, as described in the proposal dated April 13, 2023, be approved, effective September 1, 2024.

DOCUMENTATION PROVIDED:

Major Modifications: Undergraduate Curriculum Changes

1. Major Modification Proposal, Specialist or Major Where There is an Existing Major or Specialist, dated April 13, 2023.

UNIVERSITY OF TORONTO SCARBOROUGH

University of Toronto
Major Modification Proposal:

Specialist or Major Where There is an Existing Major or Specialist

This template should be used to bring forward all proposals for major modifications of this type for governance approval under the University of Toronto's Quality Assurance Process.

What is being proposed: exactly what is being proposed; e.g., a specialist or major where there is an existing major or specialist.	Department of Anthropology • New Specialist (Co-operative) and Major (Co-operative) in Evolutionary Anthropology where there is an existing Specialist and Major in Evolutionary Anthropology Department of Biological Sciences • New Major (Co-operative) in Biology where there is an existing Major in Biology • Major (Co-operative) in Conservation and Biodiversity where there is an existing Major in Conservation and Biodiversity • Specialist (Co-operative) and Major (Co-operative) in Human Biology where there is an existing Specialist and Major in Human Biology • Specialist (Co-operative) in Integrative Biology where there is an existing Specialist in Integrative Biology • Major (Co-operative) in Molecular Biology, Immunology and Disease where there is an existing Major in Molecular Biology, Immunology and Disease • Major (Co-operative) in Plant Biology where there is an existing Major in Plant Biology Department of Psychology

	• Major (Co-operative) in Mental Health Studies where there is an existing Major in Mental Health Studies • Major (Co-operative) in Neuroscience where there is an existing Major in Neuroscience • Major (Co-operative) in Psychology where there is an existing Major in Psychology
Faculty/academic division:	University of Toronto, Scarborough (UTSC)
Faculty/academic division contact:	Suzanne Sicchia, Associate Dean, Undergraduate Programs and Curriculum (adundergrad.utsc@utoronto.ca) Martha Harris, Academic Programs Officer (martha.harris@utoronto.ca)
Proponent:	David Zweig, Vice Dean, Recruitment, Enrolment and Student Success Katherine Larson, Vice-Dean Teaching, Learning, and Undergraduate Programs Shelby Verboven, Registrar and Assistant Dean, Strategic Enrolment Management Susan Soike, Director, Arts & Science Co-op, UTSC
Version date: please change as you edit this proposal.	13 April, 2023

1 Summary

- Please provide a brief summary of what is being proposed, including a clear statement of the relationship of this to the existing specialist or major and the impetus behind the proposal.

The University of Toronto Scarborough (UTSC) has been a leader in Experiential Learning (EL) for over fifty years, including through the recognized excellence of the University's Co-op programming (which reaches its fiftieth year in 2023-24), and has a current goal of 100% student engagement in EL experiences. At UTSC there are

currently more than 3,400 students registered in over 40 Co-operative education programs spanning the arts, science, and business/management disciplines.

Building on this strength, UTSC proposes to introduce a range of new Co-op programs in the sciences, beginning in Fall 2024. The proposed changes are designed to achieve two important goals: to offer students new pathways to the completion of a Co-op program of study; and to provide for essential growth in life science programs and work-integrated learning offerings. These goals are in line with the Experiential Learning priorities laid out in UTSC's Strategic Plan, *Inspiring Inclusive Excellence* (2020-2025), and the need for expanded undergraduate programs to serve the Scarborough Academy of Medicine and Integrated Health (SAMIH) currently in development at UTSC.

Students who enter UTSC in the Life Sciences Co-op admissions category currently have limited choices for programs of study, as only one subject is offered as Co-op and only as a Specialist, with the result that Arts & Science Co-op retention rates from first to second year are markedly lower in Life Sciences than in other fields (57% vs. 74% average across all other fields 2019-2022). Similarly, across the Psychological and Health Sciences programs, Co-op is currently offered mainly in Specialist programs. Increasingly, students are also choosing to enrol in two Majors or a Major and two Minors rather than a Specialist. At the same time, market demand for Co-op is strong. Applications to the existing Co-op offerings within both the Psychological & Health Sciences and the Life Sciences admissions categories have doubled since 2017. Adding Co-op offerings as Majors in the sciences will increase the number of students who can complete their preferred Life Sciences program in a Co-op format.

The proposed new Co-op programs are also an integral part of the development of SAMIH, which includes plans for a significant increase in domestic undergraduate enrolment at UTSC and will provide a hub for training and strengthening connections among healthcare providers in the region. Adding new Co-op programs is expected to attract new applicants to UTSC in order to support the required new intake growth and will support the Certificate in Health Professions being proposed separately by ensuring that every Major or Specialist affiliated with the proposed Certificate is available in both Co-op and non-Co-op programs. (The proposed Certificate will complement existing STEM curriculum by drawing together relevant courses that HBSc students might not independently pursue. This will create a pathway to SAMIH for students interested in health-related professions that offers a rich learning experience grounded in the principles and practice of inclusive,

integrated health and social medicine.) Together these initiatives help to solidify UTSC's commitment to ensuring relevant experiential opportunities for future healthcare professionals.

In all cases, the proposed programs are Co-operative analogs to existing Specialist or Major programs in each Department and as such are fully aligned with the program requirements and learning outcomes of the existing Specialist/Major. However, as is true for other Co-operative programs, the proposed Co-op programs add a Work Integrated Learning (WIL) component that combines academic studies with meaningful and academically relevant paid full-time work terms in the public, private, and/or non-profit sectors. These Co-op experiences provide students with the opportunity to develop the academic and professional skills required to pursue employment in each subject area, or to move on to graduate training in a related academic field upon graduation. In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of three Co-op work terms.

The proposed changes will:

1. Expand existing Co-op offerings in Biological Sciences to include additional programs:

- Major (Co-operative) in Molecular Biology, Immunology and Disease
- Major (Co-operative) in Plant Biology
- Major (Co-operative) in Biology
- Specialist (Co-operative) and Major (Co-operative) in Human Biology
- Specialist (Co-operative) in Integrative Biology
- Major (Co-operative) in Conservation & Biodiversity

2. Add Co-op analogs to Major programs in Psychology, where there are no current Co-op options:

- Major (Co-operative) in Mental Health
- Major (Co-operative) in Neuroscience
- Major (Co-operative) in Psychology

3. Add Co-op analogs to Anthropology program(s) awarding a BSc. degree:

- Specialist (Co-operative) and Major (Co-operative) in Evolutionary Anthropology

2 Effective Date

Fall 2024, for the 2024-2025 academic year. Students will be first able to request the programs during the 2024 program registration period.

3 Academic Rationale

- What are the academic reasons for the new major or specialist being proposed, and how does this fit with the unit's and division's academic plans?

This is a proposal to introduce new Co-op programs across a range of science subject areas. In addition to strengthening and broadening Co-op pathways for our students, building on UTSC's longstanding strengths in Experiential Learning (EL), the proposal is part of a broader plan to create points of connection from existing UTSC programs to SAMIH, supporting UTSC's goal of developing a hub for training and strengthening connections among healthcare providers in the region. Both independently and as part of the development of SAMIH, the proposed Co-op programs contribute to the execution of UTSC's Strategic Plan, *Inspiring Inclusive Excellence* (2020-2025), especially regarding the strategic directions for Priority 1, "Innovative, High-Quality Undergraduate and Graduate Student Experience & Success":

1. Provide all students with transformative, experiential, and holistic curricular, co-curricular, and extra-curricular learning opportunities.
2. Undertake comprehensive curriculum renewal that builds upon our top-tier teaching, prepares students for the world of work and the disruptions of the future, and supports innovations in inclusive teaching and learning.
3. Develop and implement a balanced and robust multi-year strategic enrolment management plan that maintains the integrity and viability of our academic mission.
4. Develop academic programs that make University of Toronto Scarborough an exemplar of life-long learning and expand opportunities for non-traditional students.

Work-Integrated Learning

UTSC has been a leader in EL for over fifty years, including through the recognized excellence of the University's Co-op programming (which reaches its fiftieth year in 2023-24), and has a current goal of 100% student engagement in EL experiences. At UTSC there are currently more than 3,400 students registered in over 40 Co-operative education programs spanning the arts, science, and business/management disciplines.

Expanding the Work-Integrated Learning (WIL) opportunities by offering additional Co-op programs is a key component of achieving the strategic directions of Priority 1, "Innovative, High-Quality Undergraduate and Graduate Student Experience & Success." Research on educational experiences outside the classroom, including placements, internships, and co-op programming, demonstrates clear benefits to students ranging from increased application of theory in practice to improved professional communication skills and enhanced employability and higher starting salaries upon graduation.

WIL opportunities are often associated with Community-Engaged Learning (CEL) activities, but the association cannot be taken for granted: CEL is distinct in its emphasis on mutual partnership and the priorities identified by community partners. While Co-op and WIL opportunities take a range of formats depending on the nature of the placement, a core commitment of UTSC's strategic plan is to anchor relationship accountability in the campus's engagement in partnership activities. The development of SAMIH offers a unique opportunity for UTSC to create rich WIL experiences that respond to needs and priorities identified by community and regional partners, integrating disciplinary outcomes with community engagement and competency development to benefit both our students and our communities.

Overview of SAMIH

There is an urgent need to address the under-met health needs of the eastern Greater Toronto Area (GTA), including Scarborough and Durham Region, coupled with a need to grow the health professional workforce to support an aging population and address the lingering effects of the COVID-19 pandemic. U of T has proposed to establish SAMIH at UTSC to provide a hub for training and strengthen connections among healthcare providers in the region. Through a partnership involving U of T, the Scarborough Health Network, Lakeridge Health, Ontario Shores Centre for Mental Health Sciences, Sunnybrook Health Sciences Centre and Michael Garron Hospital, SAMIH can prepare the next generation of healthcare professionals, increase the number of professionals practicing in the area, and strengthen the health and wellbeing of residents in the area.

The goals of establishing SAMIH at UTSC are significant and wide-ranging. U of T will train physicians, physician assistants, nurse practitioners, and rehabilitation specialists who will learn and work in interprofessional settings. By growing the workforce of high-skilled health professionals in the eastern GTA, we will support the delivery of high-quality care in frontline and long-term care settings. And, by

increasing enrolment in its life science programs, UTSC will increase pathways to health professional programs. (See the *Scarborough Academy of Medicine and Integrated Health* homepage for more details: utsc.utoronto.ca/samih/). When programs at SAMIH reach full enrollment, the following number of health care professionals and life science students will graduate on a yearly basis:

- Up to 50 physicians (MD);
- 40 physical therapists (MScPT);
- 30 physician assistants (BScPA)*;
- 30 nurse practitioners (MN-NP)*; and,
- An additional 300 life sciences undergraduate students (Hons. BSc).

** Existing student spots.*

Relationship to Existing Programs

The new programs offered in existing admissions categories and in the new admissions pathway being proposed with the Certificate in Health Professions are expected to help attract and retain students who would otherwise shift to non-Co-op programs or Co-op programs at other universities.

Existing Program(s)	Relevant Proposed Program(s)	Relationship
Major in Biology	Major (Co-op) in Biology	Expansion of Co-op offerings to include these programs
Specialist and Major in Human Biology	Specialist (Co-op) and Major (Co-op) in Human Biology	
Specialist in Integrative Biology	Specialist (Co-op) in Integrative Biology	
Major in Plant Biology	Major (Co-op) in Plant Biology	
Specialist and Major in Evolutionary Anthropology	Specialist (Co-op) and Major (Co-op) in Evolutionary Anthropology	
Major in Molecular Biology, Immunology and Disease	Major (Co-op) in Molecular Biology, Immunology and Disease	
Specialist (Co-operative) and Major in Conservation & Biodiversity	Major (Co-op) in Conservation & Biodiversity	Additional Co-op programs in subjects where Specialist (Co-op) programs
Specialist (Co-operative) and Major in Mental Health Studies	Major (Co-op) in Mental Health Studies	

Specialist (Co-operative) and Major in Neuroscience	Major (Co-op) in Neuroscience	already exist, for students interested in Major rather than Specialist
Specialist (Co-operative) and Major in Psychology	Major (Co-op) in Psychology	

4 Need and Demand

- Provide a brief description of the need and demand for the new specialist or major focusing, as appropriate, on student interest, societal need, employment opportunities for prospective graduates, interest expressed by potential employers and accreditation bodies.

Student Interest

Applications to the existing Co-op programs within both the Psychological & Health Sciences and the Life Sciences admissions categories have doubled since 2017. However, students currently have limited choices for programs of study, as some subjects are offered only as non-Co-op or Specialist (Co-op) programs, with the result that Arts & Science Co-op retention rates from first to second year are markedly lower in Life Sciences than in other fields (57% vs. 74% average across all other fields 2019-2022). The proposed changes will allow Life Sciences Co-op students to select a POSt from the full range of Life Sciences programs without leaving Co-op, provide additional Co-op programs in Psychological & Health Sciences, and allow greater flexibility to students who wish to combine two Majors or a Major and two Minors.

Adding new programs is expected to attract new applicants to UTSC and to support a large portion of the required new intake growth associated with SAMIH. Current enrolment (2022-23) in Co-op programs in the Psychological & Health Sciences and the Life Sciences is 332 students, but with this proposed expansion, capacity in SAMIH-related Co-op programs is projected to double as a steady state by 2027, as a portion of total SAMIH pathway enrolments. Capacity in related non Co-op programs, as well as capacity in existing BSc programs (both Co-op and regular) in other Departments, will meet the remaining expansion of enrolment related to SAMIH.

Additionally, these new Co-op offerings will ensure that every program affiliated with the proposed new Certificate in Pathways to Health Professions will be

available in a Co-op option. This helps to solidify UTSC's commitment to ensuring relevant experiential opportunities for future healthcare professionals.

Need for Medical Professionals

There is currently a shortage of physicians in Scarborough and Durham Region. According to the Canadian Institute for Health Information, 2019 data show that the Central East LHIN (in which Scarborough and Durham Region are located), has the second lowest number of family physicians and specialists in Ontario per 100,000 population.

Region	# of family medicine physicians per 100,000	# of specialists per 100,000
Central East LHIN	88	70
Ontario average	115	117
Canada average	122	119

Source: Scott's Medical Database, Canadian Institute for Health Information, 2019.

Several studies suggest that where medical students study and do their residency affects where they ultimately practice. For example, in 2017, the Northern Ontario School of Medicine (NOSM) reported that 94% of their MD and residency graduates are practicing in Northern Ontario (33% in remote, rural communities). In comparison, only 5% of new physicians recruited to Northern Ontario are from other schools (NOSM, 2017). At the Mississauga Academy of Medicine, more than half of doctors who undertook their family medicine residency training at Trillium Health Partners in Mississauga between 2009 to 2017 continue to work in Mississauga/Halton Region (PGME and CPSO, February 2020). The number of active specialists practicing in the former Mississauga-Halton LHIN who trained at U of T between 2009 to 2018 grew by 154% (OPHRDC, February 2020).

The expansion of Life Science Streams at UTSC in conjunction with the development of SAMIH will provide a unique combination of health professional programs that are otherwise unavailable in Eastern Toronto and Durham Region, establishing a strong pipeline to these programs and building a more robust local health professions workforce.

SAMIH Partnerships

UTSC currently conducts outreach programs for students in local neighborhoods in Scarborough and Durham region and, working with Seneca and Centennial Colleges, offers pathway programs so that students can achieve a university education. It has

research and teaching partnerships with several local organizations, notably The East Scarborough Storefront, TAIBU Community Health Centre, and the Malvern Family Resource Centre. SAMIH's health sciences pathway will also build upon several very successful programs such as Temerty Faculty of Medicine's Summer Mentorship Program, which gives high school students from Indigenous and Black communities a chance to explore health sciences at U of T, and the Community of Support, which helps students from underserved communities develop their potential as future health professionals. Individuals who participate in those programs may be eligible for support through the U of T Medicine's free MCAT program and the Black Student Admissions Program (BSAP) and Indigenous Student Admissions Program (ISAP).

UTSC will contribute these skills and relationships to the new Academy, benefiting the proposed Co-op programs in terms of both enrolment and work placement opportunities.

5 Program Requirements

- Please provide a full calendar entry including all required courses, recommended electives and their prerequisites.
- Please describe in your own words how the requirements for the major or specialist compare to the requirements of the existing specialist or major.

The proposed programs are Co-op analogs to the existing Specialist or Major programs in each department and as such are fully aligned with the program requirements and learning outcomes of the existing Specialist/Major but, as is true for other Co-op programs, add a Work Integrated Learning component. The Co-op-specific program requirements are common across each department: in addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of three Co-op work terms (see UTSC Calendar 6B.5 Co-operative Programs).

See Appendix A: Calendar Copy for program requirements specific to each program.

Co-op Enrolment Requirements
The minimum qualifications for entry into each of the proposed new Co-op Major and Specialist programs is the completion of 4.0 credits, including the recommended

first year courses in the analog non Co-op Major or Specialist, plus a cumulative GPA (Grade Point Average) of at least 2.5.

Co-op Course Requirements
Required Co-op courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They must be completed in sequence, and fall into three categories: Co-op Preparation courses (COPB50H3 & COPB51H3) are completed in first year, and cover a variety of topics intended to assist students in developing the skills and tools required to secure a work term; Work Term Search Courses (COPB52H3, COPC98H3, & COPC99H3) are completed in the semester prior to each work term, and support students while competing for work terms that are appropriate to their program of study and prepare students for the transition into and how to succeed the workplace; Co-op On Work Term Courses, which have course codes specific to each unit (e.g. COPC30H3: Co-op Work Term in Biological Sciences), are completed during each semester that a student is on work term and support students' success while on work term and connect their academics and the workplace experience.

Co-op courses are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

Co-op Work Terms
Following accreditation guidelines from Co-operative Education and Work-Integrated Learning Canada (CEWIL), the proposed Co-op programs require a minimum of 3 work-terms, occurring in different seasons (CEWIL Accreditation FAQ). Programs can be completed in four years using three summer terms in a combination of study and work terms.

Work-term opportunities are developed by the Arts & Sciences Co-op Office for the program, but due to the nature of these opportunities being full-time paid work, the Co-op requirement process is a competitive process. Students are required to apply and compete with other Co-op students for these opportunities. While on a work-term, students are enrolled in a work term course, remain in contact with UTSC through the Co-op Office, and receive a site visit part way through their work term.

Generally, work-terms begin in September, January, or May, and students are normally eligible to seek a work-term after three academic terms. To be eligible for

later work-terms, students must be in good standing in the program and have received a grade of CR (Credit) on their earlier work-term(s).

6 Degree-Level Expectations (DLEs), Program Learning Outcomes and Program Structure

- It is assumed that the learning outcomes will not be wholly new for the specialist or major; that being said, describe here how the learning outcomes for the proposed specialist or major will extend the learning outcomes for the existing major or specialist.

Given the alignment of Program Learning Outcomes across existing Specialists and Major and the proposed Co-op Specialists and Majors, Degree-Level Expectations will continue to be supported with the addition of the new Co-op offerings. The learning outcomes for each proposed program are the sum of existing Co-op program outcomes and the existing PLOs from each analog non Co-op Major or Specialist.

PLOs associated with all Co-op programs are as follows:

Upon completion of the program, students will be able to:

1. Assess and improve their individual competitiveness for positions in their field of study and in related sectors
2. Define, assess and adjust career goals and action plans to achieve them based on personal and external factors
3. Develop a job search strategy and adjust it based on challenges faced
4. Build and maintain a professional network both in person and online
5. Create a personal brand and portfolio to market yourself as an ideal job candidate
6. Coach and mentor junior professionals in their field of study
7. Exhibit professional behavior and communication during the job search process and while in the workplace
8. Navigate workplace dynamics and transition into the work force

In addition to the Co-op PLOs outlined above, each proposed Co-op program also includes the learning outcomes associated with the Co-op Preparation courses (COPB50H3, COPB51H3, COPB52H3, COPC98H3, COPC99H3 and work term courses):

Upon completion of the program, students will be able to:

- Set and attain personal and professional learning goals using the SMART goal framework
- Apply and develop knowledge and skills by being immersed full-time in a workplace setting
- Transition successfully from university to the workplace
- Begin to understand how to manage common workplace situations and dynamics
- Contribute positively in a professional environment, working independently and as part of a team
- Develop and communicate ideas and well-reasoned arguments in writing and orally
- Receive, reflect upon and incorporate feedback on work performance for continuous improvement and development
- Create an effective Portfolio to showcase skills, knowledge and experienced used or developed on work term to be used in future co-op work term search or job search activities

7 Assessment of Teaching and Learning

- Please describe the methods of evaluation for the various program requirements as they relate to the proposed specialist and major programs where there are existing major and specialist programs.
- Describe how the methods for assessing student achievement are appropriate and effective relative to established program learning outcomes and DLEs. In other words, how will faculty be able to determine whether students have learned and can do what we expect them to by the end of the program?
- How will the program document and demonstrate the level of performance of students consistent with the University's DLEs?

Method of Evaluation	Description of Relevance to PLOs
Job Search Application document	Students develop 1 master resume and cover letter document and at least 4 versions of job search documents to allow them to apply to various roles and industries for co-op work terms.

	- Directly related to Learning Outcome 1, 2, 5
Interview Simulations	Students practice and conduct a minimum of 3 interview experiences and receive feedback for improvement and level of performance on interview ability. - Directly related to Learning Outcomes 1, 3, 5, 7
Informational Interview	Students learn about how to conduct an informational interview and conduct them throughout the program. - Directly related to Learning Outcomes 1, 4, 7
Personal Introduction	Students create a 30-60 second introduction to use with employers at information sessions, networking events throughout the program. - Directly related to Learning Outcomes 4, 5, 7
Reflective Portfolio and Job Search Journal and Discussions, Professional Portfolio	Throughout the program students reflect on their job search experience and experience in workplace, as well as their feedback on performance. By the end of the program, student have compiled a reflective and professional e-portfolio outlining their co-op journey, development and experience. In upper years in the program students share these experiences with junior students and while on work term to support and mentor each other. - Directly related to Learning Outcomes 1, 2, 5, 6, 7, 8
Performance Feedback	Students receive multiple points of feedback throughout the program by coordinators, peers and employers. They demonstrate the ability to give and receive feedback and implement actions for improvement. - Directly related to Learning Outcomes 1, 7, 8

Work Term Project	Students complete a report, presentation or poster presentation that is assessed by their academic department demonstrating their ability to connect their academic and workplace experiences. - Directly related to Learning Outcomes 1, 7, 8

8 Consultation

- Describe the expected impact of what is being proposed on the nature and quality of the unit's/division's program of study and any impact on other units/divisions.
- Describe any consultation with the Deans of Faculties/divisions that will be implicated or affected by the creation of the proposed specialist or major where there is an existing major or specialist.

Consultations run by Arts & Science Co-op

- June 1, 2022 – Meeting with Associate Dean, Experiential and Global Learning, Director A&S Co-op, Assistant Director, Student Services A&S Co-op
- October 31, 2022 – Presentation in Co-op Steering Committee
- November 23, 2022 – Vice Dean, Recruitment, Enrolment and Student Success (VDRESS), Director A&S Co-op, AD Student Services A&S Co-op
- November 28, 2022 - Consultation with Department of Psychology (Chair, Assistant Chair, Manager Operations)
- January 9, 2023 – VDRESS, Chairs all Science Co-op academic departments, Director & ADSS A&S Coop
- January 16, 2023 – Co-op Steering Committee presentation
- Week of January 16, 2023 – Emails sent to all Chairs regarding proposed changes for Fall 2024
- January 24, 2023 – Consultation with Department of Language Studies
- January 26, 2023 – Chairs & Academic Directors Meeting, with VDRESS
- February 7, 2023 – Consultation with Department of Physical & Environmental Sciences
- February 10, 2023 – VDRESS presentation to Chairs and Deans (CAD)
- February 13, 2023 – Consultation with Department of Biological Sciences
- February 14, 2023 – Program Advisor in Department of Psychology
- February 17, 2023 – Consultation with Department of Health and Society

- March 17, 2023 – Consultation and approval from Department of Anthropology
- April 5, 2023 – Consultation with and approval from Department of Biological Sciences

Consultation with Students:

- April 5, 2023 - VDRESS and ADUPC presented the proposal to the Scarborough Campus Students Union

9 Resources

- Describe any resource implications of the change(s) including, but not limited to, faculty complement, space, libraries and enrolment/admissions.
- Please specify where this may impact significant enrolment agreements with the Faculty/Provost's office.
- Indicate if the major modification will affect any existing agreements with other institutions, or will require the creation of a new agreement to facilitate the major modification (e.g., Memorandum of Understanding, Memorandum of Agreement, etc.). Please consult with the Provost's office (vp.academicprograms@utoronto.ca) regarding any implications to existing or new agreements.

The proposed new Co-op programs will be subject to the same fee structure as other Arts & Science Co-op programs and be self-funding with regard to resources related to the normal administration of Co-op (student services, external relationships, etc.). Given the anticipated growth in enrolment in Co-op programs, there might be a need to offer greater support to address an increase in work term report marking. Specific arrangements for work term report marking vary across departments, often reflected in service responsibilities for faculty.

Any enrolment increases that result in a need for additional teaching, stipendiary or TA-related activity will be assessed as a part of the annual planning and priority budget process. SAMIH-related stipendiary needs will be prioritized as a part of the upcoming tri-annual review of departmental stipend and TA budgets taking place in 2023-24.

UTSC is committed to ensuring that any resource needs related to Co-op growth and related course sequencing to support SAMIH-specific enrolment targets will be met.

9.1 Faculty Complement

- Brief statement to provide evidence of the participation of a sufficient number and quality of faculty who will actively participate in the delivery of the program and the new stream.

The proposed programs will be supported by existing faculty currently teaching in the existing analog non Co-op Specialist or Major programs (see Section 3 above) in the Departments of Anthropology, Biological Sciences, and Psychology.

10 UTQAP Process

The UTQAP pathway is summarized in the table below.

Steps	Approval
Development/consultation within unit	
Consultation with Dean's office (and VPAP)	VPAP Sign-off: March 17, 2023
Department of Anthropology Department of Biological Sciences Department of Psychology	March 17, 2023 April 5, 2023 April 5, 2023
UTSC Academic Affairs Committee	May 1, 2023
Submission to Provost's office	May 1, 2023
Report to AP&P	
Report to Ontario Quality Council	

UNIVERSITY OF TORONTO SCARBOROUGH

Appendix A: Calendar Copy

Department of Anthropology

Specialist (Co-operative) in Evolutionary Anthropology

Co-op Program Coordinator: C. Dixon
Email: coopsuccess.utsc@utoronto.ca

The Specialist (Co-op) in Evolutionary Anthropology is intended to provide the professionally oriented student with background preparation of sufficient breadth and depth to pursue specialized training at the graduate level. It is also designed to offer interested students a course structure as background for a wide range of occupations and professions. Students are encouraged to consult with the Undergraduate Counsellor regarding the selection of a course sequence appropriate to their interests and objectives. In exceptional circumstances, supervised research and reading courses are available at the C- and D-levels (ANTC04H3, ANTD32H3). These courses require special arrangements prior to registration. Read the descriptions for these courses carefully as restrictions apply.

The Specialist (Co-op) in Evolutionary Anthropology complements and punctuates academic course work with full-time work terms which help students define and refine their career and/or professional school goals.

Enrolment Requirements
The minimum qualifications for entry are 4.0 credits, including ANTA01H3 and ANTA02H3, with a minimum cumulative GPA of 2.5 or higher.

Current Co-op Students:
Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above for this program.

Prospective Co-op Students:
Prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must submit a program request on ACORN, and meet the minimum qualifications noted above. Deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar each year. Failure to submit the program request on ACORN will result in that student's application not being considered.

Program Requirements
Students must complete the program requirements as described in the Specialist Program in Evolutionary Anthropology.

Co-op Work Term Requirements
Students must satisfactorily complete Co-op work term(s) as follows: three 4-month work terms, one 4-month work term and one 8-month work term, or one 12-month work term. To be eligible for their first work term, students must be enrolled in the Specialist (Co-op) in Evolutionary Anthropology and have completed at least 7.0 credits, achieve a cumulative GPA of 2.5 or higher, and complete COPB50 and COPB51.

Students must be available for work terms in each of the Fall, Winter, and Summer semesters and must complete at least one of their required work terms in either a Fall or Winter semester. This requires that students take courses during at least one Summer semester.

Co-op Course Requirements
In addition to their academic program requirements, Co-op students complete the following Co-op specific courses as part of their degree:
- Co-op Preparation courses: COPB50H3 and COPB51H3 (completed in first year)
- Work Term Search courses: COPB52H3 (semester prior to first work term), COPC98H3 (semester prior to second work term), and COPC99H3 (semester prior to third work term)
- Co-op Work Term courses: COPC21H3 (each semester a student is on work term)

These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They must be completed in sequence, and fall into three categories: Co-op Preparation courses (COPB50H3 & COPB51H3) are completed in first year, and cover a variety of topics intended to assist students in developing the skills and tools required to secure a work term; Work Term Search Courses (COPB52H3, COPC98H3, & COPC99H3) are completed in the semester prior to each work term, and support students while competing for work terms that are appropriate to their program of study, as well as preparing students for the transition into and how to succeed the workplace; Co-op Work Term courses (COPC21H3) are completed during each semester that a student is on work term, and support students' success while on work term, as well as connecting their academics and the workplace experience.

Co-op courses are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the

20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see the 6B.5 Co-operative Programs section or the Arts and Science Co-op section in the UTSC *Calendar*.

Major (Co-operative) in Evolutionary Anthropology

Co-op Program Coordinator: C. Dixon
Email: coopsuccess.utsc@utoronto.ca

The Major in Evolutionary Anthropology provides a course structure for those students desiring to expand upon or supplement other areas of academic interest by taking advantage of Anthropology's unique global, chronological, and biological perspective on the human condition.

The Major (Co-op) in Evolutionary Anthropology complements and punctuates academic course work with full-time work terms which help students define and refine their career and/or professional school goals.

Enrolment Requirements
The minimum qualifications for entry are 4.0 credits, including ANTA01H3 and ANTA02H3, with a minimum cumulative GPA of 2.5 or higher.

Current Co-op Students:
Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above for this program.

Prospective Co-op Students:
Prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must submit a program request on ACORN, and meet the minimum qualifications noted above. Deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar each year. Failure to submit the program request on ACORN will result in that student's application not being considered.

Program Requirements
Students must complete the program requirements as described in the Major in Evolutionary Anthropology.

Co-op Work Term Requirements
Students must satisfactorily complete Co-op work term(s) as follows: three 4-month work terms, one 4-month work term and one 8-month work term, or one 12-month work term. To be eligible for their first work term, students must be enrolled in the Major (Co-op) in Evolutionary Anthropology and have completed at least 7.0 credits, achieve a cumulative GPA of 2.5 or higher, and complete COPB50 and COPB51.

Students must be available for work terms in each of the Fall, Winter, and Summer semesters and must complete at least one of their required work terms in either a Fall or Winter semester. This requires that students take courses during at least one Summer semester.

Co-op Course Requirements
In addition to their academic program requirements, Co-op students complete the following Co-op specific courses as part of their degree:
- Co-op Preparation courses: COPB50H3 and COPB51H3 (completed in first year)
- Work Term Search courses: COPB52H3 (semester prior to first work term), COPC98H3 (semester prior to second work term), and COPC99H3 (semester prior to third work term)
- Co-op Work Term courses: COPC21H3 (each semester a student is on work term)

These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They must be completed in sequence, and fall into three categories: Co-op Preparation courses (COPB50H3 & COPB51H3) are completed in first year, and cover a variety of topics intended to assist students in developing the skills and tools required to secure a work term; Work Term Search Courses (COPB52H3, COPC98H3, & COPC99H3) are completed in the semester prior to each work term, and support students while competing for work terms that are appropriate to their program of study, as well as preparing students for the transition into and how to succeed the workplace; Co-op Work Term courses (COPC21H3) are completed during each semester that a student is on work term, and support students' success while on work term, as well as connecting their academics and the workplace experience.

Co-op courses are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

For information on fees, status in Co-op programs, and certification of completion of

Co-op programs, see the 6B.5 Co-operative Programs section or the Arts and Science Co-op section in the UTSC *Calendar*.

Department of Biological Sciences

Major (Co-operative) in Biology

Academic Program Supervisor: R. Sturge
Email: biology-major@utsc.utoronto.ca
Co-op Program Coordinator: C. Dixon
Email: coopsuccess.utsc@utoronto.ca

The Major (Co-op) in Biology program complements and punctuates academic course work with full-time work terms in various governmental or non-governmental agencies, in labs or in public or private industry. These work terms help students define and refine their career and/or professional school goals. For information on admissions, fees, work terms and standing in the Program, please see section 6B.5 (Co-operative Programs) or the Arts and Science Co-op section in this Calendar.

Enrolment Requirements
The minimum qualifications for entry are 4.0 credits, including 1.0 credit in Biology (excluding BIOA11H3), 1.0 credit in Chemistry, and 0.5 credit in Mathematics (excluding MATA02H3) or Statistics. A minimum cumulative GPA of 2.5 or higher is required for admission.

Current Co-op Students:
Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above for this program.

Prospective Co-op Students:
Prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must submit a program request on ACORN, and meet the minimum qualifications noted above. Deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar each year. Failure to submit the program request on ACORN will result in that student's application not being considered.

Program Requirements
Students must complete the program requirements as described in the Major in Biology.

Co-op Work Term Requirements
Students must satisfactorily complete Co-op work term(s) as follows: three 4-month work terms, one 4-month work term and one 8-month work term, or one 12-month work term. To be eligible for their first work term, students must be enrolled in the Major (Co-op) in Biology and have completed at least 7.0 credits, achieve a cumulative GPA of 2.5 or higher, and complete COPB50 and COPB51.

Students must be available for work terms in each of the Fall, Winter, and Summer semesters and must complete at least one of their required work terms in either a Fall or Winter semester. This requires that students take courses during at least one Summer semester.

Co-op Course Requirements
In addition to their academic program requirements, Co-op students complete the following Co-op specific courses as part of their degree:
- Co-op Preparation courses: COPB50H3 and COPB51H3 (completed in first year)
- Work Term Search courses: COPB52H3 (semester prior to first work term), COPC98H3 (semester prior to second work term), and COPC99H3 (semester prior to third work term)
- Co-op Work Term courses: COPC30H3 (each semester a student is on work term)

These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They must be completed in sequence, and fall into three categories: Co-op Preparation courses (COPB50H3 & COPB51H3) are completed in first year, and cover a variety of topics intended to assist students in developing the skills and tools required to secure a work term; Work Term Search Courses (COPB52H3, COPC98H3, & COPC99H3) are completed in the semester prior to each work term, and support students while competing for work terms that are appropriate to their program of study, as well as preparing students for the transition into and how to succeed the workplace; Co-op Work Term courses (COPC30H3) are completed during each semester that a student is on work term, and support students' success while on work term, as well as connecting their academics and the workplace experience.

Co-op courses are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

For information on fees, status in Co-op programs, and certification of completion of Co-

op programs, see the 6B.5 Co-operative Programs section or the Arts and Science Co-op section in the UTSC *Calendar*.

Specialist (Co-operative) in Human Biology

Academic Program Supervisor: S.G. Reid
Email: human-biology@utsc.utoronto.ca
Co-op Program Coordinator: C. Dixon
Email: coopsuccess.utsc@utoronto.ca

The Specialist in Human Biology provides a solid foundation of introductory science courses and core biology courses while emphasizing, in the upper years, issues related to human health, the nature of humans and their culture as well as the interaction of the human species with the environment. The first year of the program emphasizes introductory courses in biology, chemistry, calculus, physics and psychology. The second year of the program emphasizes core courses in cell biology, molecular biology, physiology, ecology, evolution and anatomy that provide the basis for continued specialization in the third and fourth years. The upper years of the program emphasize specialized courses in anatomy, biochemistry, endocrinology, immunology, microbiology, physiology, psychology, pathology and pathobiology. This program is suited for those students who wish to go onto health-related fields such as medicine, dentistry, nursing, pharmacy, physiotherapy and health policy/management or graduate studies in these, and other, areas such as physiology, medicine and endocrinology.

The Specialist (Co-op) in Human Biology complements and punctuates academic course work with full-time work terms in various governmental or non-governmental agencies, in labs or in public or private industry. These work terms help students define and refine their career and/or professional school goals.

Enrolment Requirements
Students apply to the Specialist (Co-op) in Human Biology after completing a minimum of 4.0 credits, including 1.0 credit in Biology (excluding BIOA11H3), 1.0 credit in Chemistry, and 0.5 credit in Mathematics (excluding MATA02H3) or Statistics and with a minimum cumulative grade point average (CGPA) of at least 2.5.

Current Co-op Students:
Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above for this program.

Prospective Co-op Students:
Prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must submit a program request on ACORN, and meet the minimum qualifications noted above. Deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar each year. Failure to submit the program request on ACORN will result in that student's application not being considered.

Program Requirements
Students must complete the program requirements as described in the Specialist in Human Biology.

Co-op Work Term Requirements
Students must satisfactorily complete Co-op work term(s) as follows: three 4-month work terms, one 4-month work term and one 8-month work term, or one 12-month work term. To be eligible for their first work term, students must be enrolled in the Specialist (Co-op) in Human Biology and have completed at least 7.0 credits, achieve a cumulative GPA of 2.5 or higher, and complete COPB50 and COPB51.

Students must be available for work terms in each of the Fall, Winter, and Summer semesters and must complete at least one of their required work terms in either a Fall or Winter semester. This requires that students take courses during at least one Summer semester.

Co-op Course Requirements
In addition to their academic program requirements, Co-op students complete the following Co-op specific courses as part of their degree:
- Co-op Preparation courses: COPB50H3 and COPB51H3 (completed in first year)
- Work Term Search courses: COPB52H3 (semester prior to first work term), COPC98H3 (semester prior to second work term), and COPC99H3 (semester prior to third work term)
- Co-op Work Term courses: COPC30H3 (each semester a student is on work term)

These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They must be completed in sequence, and fall into three categories: Co-op Preparation courses (COPB50H3 & COPB51H3) are completed in first year, and cover a variety of topics intended to assist students in developing the skills and tools required to secure a work term; Work Term Search Courses (COPB52H3, COPC98H3, & COPC99H3) are completed in the semester prior to each work term, and support students while competing for work terms that are appropriate to their program of study, as well as preparing students for the transition into and how to succeed the workplace; Co-op Work Term courses

(COPC30H3) are completed during each semester that a student is on work term, and support students' success while on work term, as well as connecting their academics and the workplace experience.

Co-op courses are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see the 6B.5 Co-operative Programs section or the Arts and Science Co-op section in the UTSC *Calendar*.

Major (Co-operative) in Human Biology

Academic Program Supervisor: S.G. Reid
Email: human-biology@utsc.utoronto.ca
Co-op Program Coordinator: C. Dixon
Email: coopsuccess.utsc@utoronto.ca

The Major in Human Biology provides training and background in general biology with the opportunity to concentrate on courses in upper years that are related to human health. Upper year courses are available in physiology, cell and molecular biology, anatomy, microbiology, pathology, endocrinology, anthropology, psychology and biochemistry. This program is suitable for students with an interest in applied biology in health sciences or in social sciences related to human health.

The Major (Co-op) in Human Biology program complements and punctuates academic course work with full-time work terms in various governmental or non-governmental agencies, in labs or in public or private industry. These work terms help students define and refine their career and/or professional school goals.

Enrolment Requirements
Students apply to the Major (Co-op) in Human Biology after completing a minimum of 4.0 credits, including 1.0 credit in Biology (excluding BIOA11H3), 1.0 credit in Chemistry, and 0.5 credit in Mathematics (excluding MATA02H3) or Statistics. A minimum cumulative GPA of 2.5 or higher is required for admission.

Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above for this program.

Prospective Co-op Students:
Prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must submit a program request on ACORN, and meet the minimum qualifications noted above. Deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar each year. Failure to submit the program request on ACORN will result in that student's application not being considered.

Program Requirements
Students must complete the program requirements as described in the Major in Human Biology.

Co-op Work Term Requirements
Students must satisfactorily complete Co-op work term(s) as follows: three 4-month work terms, one 4-month work term and one 8-month work term, or one 12-month work term. To be eligible for their first work term, students must be enrolled in the Major (Co-op) Program in Human Biology and have completed at least 7.0 credits, achieve a cumulative GPA of 2.5 or higher, and complete COPB50 and COPB51.

Students must be available for work terms in each of the Fall, Winter, and Summer semesters and must complete at least one of their required work terms in either a Fall or Winter semester. This requires that students take courses during at least one Summer semester.

Co-op Course Requirements
In addition to their academic program requirements, Co-op students complete the following Co-op specific courses as part of their degree:
- Co-op Preparation courses: COPB50H3 and COPB51H3 (completed in first year)
- Work Term Search courses: COPB52H3 (semester prior to first work term), COPC98H3 (semester prior to second work term), and COPC99H3 (semester prior to third work term)
- Co-op Work Term courses: COPC30H3 (each semester a student is on work term)

These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They must be completed in sequence, and fall into three categories: Co-op Preparation courses (COPB50H3 & COPB51H3) are completed in first year, and cover a variety of topics intended to assist students in developing the skills and tools required to secure a work

term; Work Term Search Courses (COPB52H3, COPC98H3, & COPC99H3) are completed in the semester prior to each work term, and support students while competing for work terms that are appropriate to their program of study, as well as preparing students for the transition into and how to succeed the workplace; Co-op Work Term courses (COPC30H3) are completed during each semester that a student is on work term, and support students' success while on work term, as well as connecting their academics and the workplace experience.

Co-op courses are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see the 6B.5 Co-operative Programs section or the Arts and Science Co-op section in the UTSC *Calendar*.

UNIVERSITY OF TORONTO SCARBOROUGH

Specialist (Co-operative) in Integrative Biology

Academic Program Supervisor: R. Sturge
Email: integrative-biology@utsc.utoronto.ca
Co-op Program Coordinator: C. Dixon
Email: coopsuccess.utsc@utoronto.ca

The Integrative Biology program allows students to pursue a specialist program built on a broad, multi-perspective approach towards understanding biological complexity. This program provides students with a solid foundation in core biological areas (cellular and organismal biology, ecology and conservation, genes and development) and builds on this knowledge base in third and fourth years. A key advantage to this program is that it allows students to pursue specialization in more than one area at the same time, providing students with a broad understanding of biology. Many of the biggest issues facing today's planet require scientists that are capable of bringing different and complementary perspectives to look for solutions, and this program provides the coursework and training to help undergraduates build this knowledge base. Students who are interested in careers in conservation biology, ecology, environmental sciences, cellular/organismal biology, as well as ones interested in careers in medicine and other health professions, will benefit from this program.

Enrolment Requirements
Students apply to the Specialist (Co-op) in Integrative Biology after completing a minimum of 4.0 credits, including 1.0 credit in Biology (excluding BIOA11H3), 1.0 credit in Chemistry, and 0.5 credit in Mathematics (excluding MATA02H3) or Statistics. A minimum cumulative grade point average (CGPA) of at least 2.5 or higher is required for admission.

Application for admission is made to the Office of the Registrar through ACORN, in April/May and July/August. See the Office of the Registrar for more information on program selection.

Current Co-op Students:
Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above for this program.

Prospective Co-op Students:
Prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must submit a program request on ACORN, and meet the minimum qualifications noted above.

Deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar each year. Failure to submit the program request on ACORN will result in that student's application not being considered.

Program Requirements
Students must complete the program requirements as described in the Specialist in Integrative Biology.

Co-op Work Term Requirements
Students must satisfactorily complete Co-op work term(s) as follows: three 4-month work terms, one 4-month work term and one 8-month work term, or one 12-month work term. To be eligible for their first work term, students must be enrolled in the Specialist (Co-op) Program in Integrative Biology and have completed at least 7.0 credits, achieve a cumulative GPA of 2.5 or higher, and complete COPB50 and COPB51.

Students must be available for work terms in each of the Fall, Winter, and Summer semesters and must complete at least one of their required work terms in either a Fall or Winter semester. This requires that students take courses during at least one Summer semester.

Co-op Course Requirements
In addition to their academic program requirements, Co-op students complete the following Co-op specific courses as part of their degree:
- Co-op Preparation courses: COPB50H3 and COPB51H3 (completed in first year)
- Work Term Search courses: COPB52H3 (semester prior to first work term), COPC98H3 (semester prior to second work term), and COPC99H3 (semester prior to third work term)
- Co-op Work Term courses: COPC30H3 (each semester a student is on work term)

These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They must be completed in sequence, and fall into three categories: Co-op Preparation courses (COPB50H3 & COPB51H3) are completed in first year, and cover a variety of topics intended to assist students in developing the skills and tools required to secure a work term; Work Term Search Courses (COPB52H3, COPC98H3, & COPC99H3) are completed in the semester prior to each work term, and support students while competing for work terms that are appropriate to their program of study, as well as preparing students for the transition into and how to succeed the workplace; Co-op Work Term courses (COPC30H3) are completed during each semester that a student is on work term, and support students' success while on work term, as well as connecting their academics and the workplace experience.

Co-op courses are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see the 6B.5 Co-operative Programs section or the Arts and Science Co-op section in the UTSC *Calendar*.

Major (Co-operative) in Molecular Biology, Immunology and Disease

Supervisor: S. Brunt
Email: molecular-biology-immunology@utsc.utoronto.ca
Co-op Program Coordinator: C. Dixon
Email: coopsuccess.utsc@utoronto.ca

This program provides training and background in general biology with the opportunity to concentrate on courses in upper years that are related to immunology, infection and disease. Upper year courses are available in microbiology, immunology, biochemistry and pathobiology of disease. This program is suitable for students with an interest in molecular biology and disease.

Enrolment Requirements
Students apply to the Major (Co-op) in Molecular Biology, Immunology and Disease after completing a minimum of 4.0 credits, including 1.0 credit in Biology (excluding BIOA11H3), 1.0 credit in Chemistry, and 0.5 credit in Mathematics (excluding MATA02H3) or Statistics. A minimum cumulative GPA of 2.5 or higher is required for admission.

Application for admission is made to the Office of the Registrar through ACORN, in April/May and July/August. See the Office of the Registrar for more information on program selection.

Current Co-op Students:
Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above for this program.

Prospective Co-op Students:

Prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must submit a program request on ACORN, and meet the minimum qualifications noted above. Deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar each year. Failure to submit the program request on ACORN will result in that student's application not being considered.

Program Requirements
Students must complete the program requirements as described in the Major in Molecular Biology, Immunology and Disease.

Co-op Work Term Requirements

Students must satisfactorily complete Co-op work term(s) as follows: three 4-month work terms, one 4-month work term and one 8-month work term, or one 12-month work term. To be eligible for their first work term, students must be enrolled in the Major (Co-op) in Molecular Biology, Immunology and Disease and have completed at least 7.0 credits, achieve a cumulative GPA of 2.5 or higher, and complete COPB50 and COPB51.

Students must be available for work terms in each of the Fall, Winter, and Summer semesters and must complete at least one of their required work terms in either a Fall or Winter semester. This requires that students take courses during at least one Summer semester.

Co-op Course Requirements
In addition to their academic program requirements, Co-op students complete the following Co-op specific courses as part of their degree:
- Co-op Preparation courses: COPB50H3 and COPB51H3 (completed in first year)
- Work Term Search courses: COPB52H3 (semester prior to first work term), COPC98H3 (semester prior to second work term), and COPC99H3 (semester prior to third work term)
- Co-op Work Term courses: COPC30H3 (each semester a student is on work term)

These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They must be completed in sequence, and fall into three categories: Co-op Preparation courses (COPB50H3 & COPB51H3) are completed in first year, and cover a variety of topics intended to assist students in developing the skills and tools required to secure a work term; Work Term Search Courses (COPB52H3, COPC98H3, & COPC99H3) are completed in the semester prior to each work term, and support students while competing for work terms that are appropriate to their program of study, as well as preparing students for

the transition into and how to succeed the workplace; Co-op Work Term courses (COPC30H3) are completed during each semester that a student is on work term, and support students' success while on work term, as well as connecting their academics and the workplace experience.

Co-op courses are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see the 6B.5 Co-operative Programs section or the Arts and Science Co-op section in the UTSC *Calendar*

Major (Co-operative) in Plant Biology

Academic Program Supervisor: J. Brown
Email: plant-biology@utsc.utoronto.ca
Co-op Program Coordinator: C. Dixon
Email: coopsuccess.utsc@utoronto.ca

The Major Program in Plant Biology provides a broad education in all areas of contemporary biology and affords students an opportunity to concentrate on Plant Biology courses in upper years. This program is suitable for students with an interest in biochemistry, biotechnology, cell biology, ecology, evolution, genetics, physiology, and/or development of plants.

Enrolment Requirements
Students apply to the Major (Co-op) Program in Plant Biology after completing a minimum of 4.0 credits, including 1.0 credit in Biology (excluding BIOA11H3), 1.0 credit in Chemistry, and 0.5 credit in Mathematics (excluding MATA02H3) or Statistics. A minimum cumulative GPA of 2.5 or higher is required for admission.

Application for admission is made to the Office of the Registrar through ACORN, in April/May and July/August. See the Office of the Registrar for more information on program selection.

Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above for this program.

Prospective Co-op Students:
Prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must submit a program request on ACORN, and meet the minimum qualifications noted above. Deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar each year. Failure to submit the program request on ACORN will result in that student's application not being considered.

Program Requirements
Students must complete the program requirements as described in the Major Program in Plant Biology.

Co-op Work Term Requirements
Students must satisfactorily complete Co-op work term(s) as follows: three 4-month work terms, one 4-month work term and one 8-month work term, or one 12-month work term. To be eligible for their first work term, students must be enrolled in the Major (Co-op) Program in Plant Biology and have completed at least 7.0 credits, achieve a cumulative GPA of 2.5 or higher, and complete COPB50 and COPB51.

Students must be available for work terms in each of the Fall, Winter, and Summer semesters and must complete at least one of their required work terms in either a Fall or Winter semester. This requires that students take courses during at least one Summer semester.

Co-op Course Requirements
In addition to their academic program requirements, Co-op students complete the following Co-op specific courses as part of their degree:
- Co-op Preparation courses: COPB50H3 and COPB51H3 (completed in first year)
- Work Term Search courses: COPB52H3 (semester prior to first work term), COPC98H3 (semester prior to second work term), and COPC99H3 (semester prior to third work term)
- Co-op Work Term courses: COPC30H3 (each semester a student is on work term)

These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They must be completed in sequence, and fall into three categories: Co-op Preparation courses (COPB50H3 & COPB51H3) are completed in first year, and cover a variety of topics.

intended to assist students in developing the skills and tools required to secure a work term; Work Term Search Courses (COPB52H3, COPC98H3, & COPC99H3) are completed in the semester prior to each work term, and support students while competing for work terms that are appropriate to their program of study, as well as preparing students for the transition into and how to succeed the workplace; Co-op Work Term courses (COPC30H3) are completed during each semester that a student is on work term, and support students' success while on work term, as well as connecting their academics and the workplace experience.

Co-op courses are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see the 6B.5 Co-operative Programs section or the Arts and Science Co-op section in the UTSC *Calendar*.

Department of Psychology

Major (Co-operative) in Mental Health Studies

Academic Program Advisor: A. Lawson
Email: psychology-coop@utsc.utoronto.ca
Co-op Program Co-ordinator: C. Dixon
Email: coopsuccess.utsc@utoronto.ca

The Major (Co-op) in Mental Health Studies is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to Mental Health upon graduation.

Enrolment Requirements
Enrolment in the Program is limited. Admission will require:
(a.) completion of any Grade 12 U/M high school math course or equivalent (or

successful completion of the UTSC Online Mathematics Preparedness Course or equivalent), and
(b.) completion of Grade 12 U/M high school biology or equivalent (or BIOA11H3 or equivalent), and
(c.) completion of a minimum of 4.0 credits, including 1.0 credit in Psychology, and
(d.) either (1) a final grade of 67% or higher in both of PSYA01H3 and PSYA02H3, or (2) a final grade of 60% or higher in both of PSYA01H3 and PSYA02H3, and a final grade of 72% or higher in two B-level psychology courses.

Current Co-op Students:
Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above for this program.

Prospective Co-op Students:
Prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must submit a program request on ACORN, and meet the minimum qualifications noted above. Deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar each year. Failure to submit the program request on ACORN will result in that student's application not being considered.

Program Requirements
Students must complete the program requirements as described in the Major in Mental Health Studies.

Co-op Work Term Requirements
Students must satisfactorily complete Co-op work term(s) as follows: three 4-month work terms, one 4-month work term and one 8-month work term, or one 12-month work term. To be eligible for their first work term, students must be enrolled in the Major (Co-op) in Mental Health Studies and have completed at least 7.0 credits, achieve a cumulative GPA of 2.5 or higher, and complete COPB50 and COPB51.

Students must be available for work terms in each of the Fall, Winter, and Summer semesters and must complete at least one of their required work terms in either a Fall or Winter semester. This requires that students take courses during at least one Summer semester.

Co-op Course Requirements
In addition to their academic program requirements, Co-op students complete the following Co-op specific courses as part of their degree:
- Co-op Preparation courses: COPB50H3 and COPB51H3 (completed in first year)

- Work Term Search courses: COPB52H3 (semester prior to first work term), COPC98H3 (semester prior to second work term), and COPC99H3 (semester prior to third work term)
- Co-op Work Term courses: COPC40H3 (each semester a student is on work term)

These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They must be completed in sequence, and fall into three categories: Co-op Preparation courses (COPB50H3 & COPB51H3) are completed in first year, and cover a variety of topics intended to assist students in developing the skills and tools required to secure a work term; Work Term Search Courses (COPB52H3, COPC98H3, & COPC99H3) are completed in the semester prior to each work term, and support students while competing for work terms that are appropriate to their program of study, as well as preparing students for the transition into and how to succeed the workplace; Co-op Work Term courses (COPC40H3) are completed during each semester that a student is on work term, and support students' success while on work term, as well as connecting their academics and the workplace experience.

Co-op courses are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see the 6B.5 Co-operative Programs section or the Arts and Science Co-op section in the UTSC *Calendar*.

Major (Co-operative) in Neuroscience

Academic Program Advisor: A. Lawson
Email: psychology-coop@utsc.utoronto.ca
Co-op Program Co-ordinator: C. Dixon
Email: coopsuccess.utsc@utoronto.ca

The Major in Neuroscience focuses on both Cellular/Molecular and Systems/Behavioural Neuroscience and requires less research-intensive coursework than the Specialist programs. The Major focuses more on how to be a skilled consumer of neuroscience research, providing a valuable foundation for a variety of career paths.

Students who wish to combine the Major in Neuroscience with a Major in any one of Biology, Human Biology, Mental Health Studies, or Psychology are advised that they must complete 12.0 distinct credits to receive a certification of the completion of both programs. For more information, see section 6A.2 Degree Requirements in the UTSC Academic Calendar. Consultation with the respective Program Supervisors in the selection of credits is recommended.

Enrolment Requirements
Enrolment in the program is limited. Students may apply after completing a minimum of 4.0 credits including: BIOA01H3, BIOA02H3, CHMA10H3, CHMA11H3, PSYA01H3, and PSYA02H3. Admission to this program requires a CGPA of 2.5 or higher.

Current Co-op Students:
Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above for this program.

Prospective Co-op Students:
Prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must submit a program request on ACORN, and meet the minimum qualifications noted above. Deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar each year. Failure to submit the program request on ACORN will result in that student's application not being considered.

Program Requirements
Students must complete the program requirements as described in the Major in Neuroscience.

Co-op Work Term Requirements
Students must satisfactorily complete Co-op work term(s) as follows: three 4-month work terms, one 4-month work term and one 8-month work term, or one 12-month work term. To be eligible for their first work term, students must be enrolled in the Major (Co-op) in Neuroscience and have completed at least 7.0 credits, achieve a cumulative GPA of 2.5 or higher, and complete COPB50 and COPB51.

Students must be available for work terms in each of the Fall, Winter, and Summer semesters and must complete at least one of their required work terms in either a Fall or Winter semester. This requires that students take courses during at least one Summer semester.

Co-op Course Requirements

In addition to their academic program requirements, Co-op students complete the following Co-op specific courses as part of their degree:
- Co-op Preparation courses: COPB50H3 and COPB51H3 (completed in first year)
- Work Term Search courses: COPB52H3 (semester prior to first work term), COPC98H3 (semester prior to second work term), and COPC99H3 (semester prior to third work term)
- Co-op Work Term courses: COPC40H3 (each semester a student is on work term)

These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They must be completed in sequence, and fall into three categories: Co-op Preparation courses (COPB50H3 & COPB51H3) are completed in first year, and cover a variety of topics intended to assist students in developing the skills and tools required to secure a work term; Work Term Search Courses (COPB52H3, COPC98H3, & COPC99H3) are completed in the semester prior to each work term, and support students while competing for work terms that are appropriate to their program of study, as well as preparing students for the transition into and how to succeed the workplace; Co-op Work Term courses (COPC40H3) are completed during each semester that a student is on work term, and support students' success while on work term, as well as connecting their academics and the workplace experience.

Co-op courses are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see the 6B.5 Co-operative Programs section or the Arts and Science Co-op section in the UTSC *Calendar*.

Major (Co-operative) in Psychology

Academic Program Advisor: A. Lawson
Email: psychology-coop@utsc.utoronto.ca
Co-op Program Co-ordinator: C. Dixon
Email: coopsuccess.utsc@utoronto.ca

The Major (Co-op) in Psychology is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the

academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to Psychology upon graduation.

Enrolment Requirements
Enrolment in the Program is limited. Admission will require:
(a.) completion of any Grade 12 U/M high school math course or equivalent (or successful completion of the UTSC Online Mathematics Preparedness Course or equivalent), and
(b.) completion of Grade 12 U/M high school biology or equivalent (or BIOA11H3 or equivalent), and
(c.) completion of a minimum of 4.0 UTSC credits, including 1.0 credit in Psychology, and
(d.) either (1) a final grade of 67% or higher in both PSYA01H3 and PSYA02H3, or (2) a final grade of 60% or higher in both PSYA01H3 and PSYA02H3, and a final grade of 72% or higher in two B-level psychology courses.

Current Co-op Students:
Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above for this program.

Prospective Co-op Students:
Prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must submit a program request on ACORN, and meet the minimum qualifications noted above. Deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar each year. Failure to submit the program request on ACORN will result in that student's application not being considered.

Program Requirements
Students must complete the program requirements as described in the Major in Psychology.

Co-op Work Term Requirements
Students must satisfactorily complete Co-op work term(s) as follows: three 4-month work terms, one 4-month work term and one 8-month work term, or one 12-month work term. To be eligible for their first work term, students must be enrolled in the Major (Co-op) in Psychology and have completed at least 7.0 credits, achieve a cumulative GPA of 2.5 or higher, and complete COPB50 and COPB51.

Students must be available for work terms in each of the Fall, Winter, and Summer

semesters and must complete at least one of their required work terms in either a Fall or Winter semester. This requires that students take courses during at least one Summer semester.

Co-op Course Requirements
In addition to their academic program requirements, Co-op students complete the following Co-op specific courses as part of their degree:
- Co-op Preparation courses: COPB50H3 and COPB51H3 (completed in first year)
- Work Term Search courses: COPB52H3 (semester prior to first work term), COPC98H3 (semester prior to second work term), and COPC99H3 (semester prior to third work term)
- Co-op Work Term courses: COPC40H3 (each semester a student is on work term)

These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They must be completed in sequence, and fall into three categories: Co-op Preparation courses (COPB50H3 & COPB51H3) are completed in first year, and cover a variety of topics intended to assist students in developing the skills and tools required to secure a work term; Work Term Search Courses (COPB52H3, COPC98H3, & COPC99H3) are completed in the semester prior to each work term, and support students while competing for work terms that are appropriate to their program of study, as well as preparing students for the transition into and how to succeed the workplace; Co-op Work Term courses (COPC40H3) are completed during each semester that a student is on work term, and support students' success while on work term, as well as connecting their academics and the workplace experience.

Co-op courses are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see the 6B.5 Co-operative Programs section or the Arts and Science Co-op section in the UTSC *Calendar*.