SPECIALIST (CO-OPERATIVE) PROGRAM IN GLOBAL ENVIRONMENTAL CHANGE (SCIENCE) - SCSPE0371C

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

The Specialist (Co-op) Program in Global Environmental Change 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 Environmental Biology upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term and Course requirements.

Enrolment Requirements
The minimum qualifications for entry are 4.5 credits, including BIOA01H3, BIOA02H3, CHMA10H3, CHMA11H3, EESA01H3, EESA06H3, MATA30H3, [MATA35H3 or MATA36H3 or MATA37H3] and [PHYA10H3 or PHYA11H3], plus a cumulative GPA 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.

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.

Academic Program Requirements
Students must complete the program requirements as described in the Specialist Program in Global Environmental Change.

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 Global Environmental Change and have completed at least 7.0 credits, achieve a cumulative GPA of 2.5 or higher, and complete COPB50H3 and COPB51H3.

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: COPC05H3 (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 (COPC05H3) 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 Co-operative

Programs section and the Arts and Science Co-op section in the UTSC *Calendar*.

Calendar Section: Environmental Science, Arts and Science Co-op

SPECIALIST (CO-OPERATIVE) PROGRAM IN HISTORY (ARTS) - SCSPE0652C

For more information, please contact:

Academic Program Advisor: history-undergrad-advisor@utsc.utoronto.ca

Co-op Program Advisor: coopsuccess.utsc@utoronto.ca

The Specialist (Co-op) Program in History 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 History 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 two Co-op work terms.

Enrolment Requirements
The minimum qualifications for entry are 4.0 credits, including 0.5 credits from: HISA04H3, HISA05H3, HISA06H3/ GASA01H3, HISA07H3/CLAA04H3, HISA08H3/AFSA01H3 or HISA09H3, plus a cumulative GPA 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.

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 History.

Co-op Work Term Requirements
Students must satisfactorily complete two Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Specialist (Co-op) Program in History and have completed at least 10.0 credits, including two of [HISA04H3, HISA05H3, HISA06H3/GASA01H3, HISA07H3/CLAA04H3, HISA08H3/AFSA01H3 or HISA09H3] as well as HISB03H3.
In addition to their academic program requirements, Co-op students complete up to four Co-op specific courses. 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 cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and 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 Preparation Course Requirements:

1. COPB50H3/(COPD01H3) – Foundations for Success in Arts & Science Co-op
- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in Fall, Winter, or Summer of their first year at UTSC.
- Current UTSC students entering Co-op in April/May will complete this course in the Summer semester.
- Current UTSC students entering Co-op in July/August will complete this course in the Winter semester.

2. COPB51H3/(COPD03H3) – Preparing to Compete for your Work Term
- This course will be completed eight months in advance of the first scheduled work term.

3. COPB52H3/(COPD11H3) – Managing your Job Search and Transition to the Workplace

- This course will be completed four months in advance of the first work scheduled work term.

4. COPC98H3/(COPD12H3) – Integrating Your Work Term Experience Part I
- This course will be completed four months in advance of the second scheduled work term.

5. COPC99H3/(COPD13H3) – Integrating Your Work Term Experience Part II
- This course will be completed four months in advance of the third scheduled work term (for programs that require the completion of 3 work terms and/or four months in advance of any additional work terms that have been approved by the Arts and Science Co-op Office.

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, in turn, requires that students take courses during at least one Summer semester.

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

Calendar Section: **History**, **Arts and Science Co-op**

SPECIALIST (CO-OPERATIVE) PROGRAM IN HUMAN BIOLOGY (SCIENCE) - SCSPE0215C

Academic Program Supervisor: 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.

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.

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 COPB50H3 and COPB51H3.

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 Co-operative Programs section and the Arts and Science Co-op section in the UTSC *Calendar*.

Calendar Section: Biological Sciences, Arts and Science Co-op

SPECIALIST (CO-OPERATIVE) PROGRAM IN INTEGRATIVE BIOLOGY (SCIENCE) - SCSPE1030M

Academic Program Supervisor 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.

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.

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 [COPB50H3](#) and [COPB51H3](#).

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 [Co-operative Programs](#) section and the [Arts and Science Co-op](#) section in the UTSC *Calendar*.

Calendar Section: [Biological Sciences](#), [Arts and Science Co-op](#)

SPECIALIST (CO-OPERATIVE) PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (ARTS) - SCSPE2540

Co-op Contact: ids-coop@utsc.utoronto.ca

Enrolment Requirements
Enrolment in the program is limited. The minimum qualifications for entry are 4.0 credits and a cumulative GPA of at least 2.5. Most students are accepted into the program directly from secondary school. Transfer students and current UTSC students may also apply for admission but require a minimum of 4.0 credits up to a maximum of 6.0 credits.

An interview is required. Interviews are normally held from January until May for students who pass the initial screening. Successful applicants will demonstrate strong academic performance, language skills, extra-curricular involvement, and demonstrated an interest in international development.

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.

Prospective Co-op Students:
In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the International Development

Studies Co-op Office in HL410, or visit the International Development Studies Co-op Office website. Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

Program Requirements
The program requires a total of 15.0 credits, 4.0 credits of which must be at the C- or D-level, including at least 1.0 credit at the D-level. Students must complete components 1-3 and 5 of the program requirements as described in the Specialist Program in International Development Studies (Arts).

In addition, students must complete:
Co-operative, Language and Thesis Requirements (2.5 credits)
1.0 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

Co-op Work Term Requirements
To be eligible for placement, students must have completed 14.5 credits, including IDSC01H3, IDSC04H3, and 6.0 credits from Requirements 1-3, as noted above. It is highly recommended that students complete courses towards fulfilling their specialized courses from Requirement 5, as well as the required 1.0 credit in a second language when completing the remainder of the 14.5 credits that are required prior to placement.

Students are required to submit bi-monthly progress reports every 2 months and begin work on a major research project.

In addition to the academic course requirements, students are required to complete three additional non-credit courses: COPB30H3/(COPD02H3), COPB31H3/(COPD04H3), and COPB33H3. Students entering the program prior to Fall 2021 will have two non-credit courses: COP30H3/(COPD02H3), and COPB31H3/(COPD04H3). These courses are taken in the first and third year of the program with the aim of providing students with the skills and knowledge needed to successfully navigate the placement experience. These credits are in addition to the 20.0 credits required for the degree. Work terms are evaluated by the program faculty, the co-op office, and the employer. A grade of CR (credit)/NCR (no credit) is recorded on the transcript.

For information on fees and status in Co-op programs, and certification of completion of Co-op programs, see the Co-operative Programs section or the International Development Studies Co-op section in the UTSC *Calendar*.

Calendar Section: International Development Studies

SPECIALIST (CO-OPERATIVE) PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (SCIENCE) - SCSPE25406

Co-op Contact: ids-coop@utsc.utoronto.ca

Enrolment Requirements
Enrolment in the Program is limited. The minimum qualifications for entry are 4.0 credits and a cumulative GPA of at least 2.5. Most students are accepted into the program directly from secondary school. Transfer students and current UTSC students may also apply for admission but require a minimum of 4.0 credits up to a maximum of 6.0 credits.

An interview is required. Interviews are normally held from January until May for students who pass the initial screening. Successful applicants will demonstrate strong academic performance, language skills, extra-curricular involvement, and demonstrated an interest in international development.

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.

Prospective Co-op Students:
In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the International Development Studies Co-op Office in HL410, or visit the International Development Studies Co-op Office website. Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

Program Requirements
The program requires students to complete a total 15.5 credits, of which 4.0 credits must be at the C-or D- level including at least 1.0 credit at the D-level.

1. Introduction to Sciences and International Development Studies (4.5 credits):

IDSA01H3 Introduction to International Development Studies
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
EESA01H3 Introduction to Environmental Science
EESA06H3 Introduction to Planet Earth
[MGEA01H3 Introduction to Microeconomics or MGEA02H3 Introduction to Microeconomics: A Mathematical Approach]
[MGEA05H3 Introduction to Macroeconomics or MGEA06H3 Introduction to Macroeconomics: A Mathematical Approach]

2. Core Courses in International Development (At least 2.0 credits from the following):

IDSB01H3 Political Economy of International Development
IDSB02H3 Development and Environment
IDSB04H3 Introduction to International/Global Health
IDSB06H3 Equity, Ethics and Justice in International Development
IDSB07H3 Confronting Development's Racist Past and Present
Note: We highly recommend students enroll in IDSB07H3 as part of their core B-level courses. Students in the IDS co-op program must complete IDSB07H3 prior to enrolling in IDSC01H3.

3. Core courses in Environmental Biology (2.5 credits):

BIOB50H3 Ecology
BIOB51H3 Evolutionary Biology
EESB03H3 Principles of Climatology
EESB05H3 Principles of Soil Science
EESB16H3 Feeding Humans - The Cost to the Planet

4. Methods for International Development Studies (1.5 credits):

IDSC04H3 Project Management I
STAB22H3 Statistics I or equivalent
and
0.5 credit from the following:
GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning
EESC03H3 Geographic Information Systems and Remote Sensing

5. Advanced Courses in Environmental Biology (2.0 credits of which 0.5 must be at the D-level):
Choose from:
BIOC37H3 Plants: Life on the Edge
BIOC58H3 Biological Consequences of Global Change
BIOC61H3 Community Ecology and Environmental Biology
BIOC62H3 Role of Zoos and Aquariums in Conservation
BIOC63H3 Conservation Biology
EESC04H3 Biodiversity and Biogeography
BIOD54H3 Applied Conservation Biology
EESD06H3 Climate Change Impact Assessment

6. Environmental Science in Practice (0.5 credit):
Choose from:
EESC13H3 Environmental Impact Assessment and Auditing
(GGRC22H3) Political Ecology Theory and Applications
GGRC25H3 Land Reform and Development
GGRC26H3 Geographies of Environmental Governance
GGRC44H3 Environmental Conservation and Sustainable Development
IDSC02H3 Environmental Science and Evidence-Based Policy

7. Co-operative, Language and Thesis Requirements (2.5 credits):
1.0 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

Co-op Work Term Requirements
To be eligible for placement, students must have completed 14.5 credits, including 10.5 credits from Requirements 1. through 4. as noted above and IDSC01H3. It is highly recommended that students complete courses towards fulfilling their specialized courses from Requirement 6., as well as the required 1.0 credit in a second language, when completing the

remainder of the 14.5 credits that are required prior to placement.

Students are required to submit bi-monthly progress reports every 2 months and begin work on a major research project.

In addition to the academic course requirements, students are required to complete three additional non-credit courses: COPB30H3/(COPD02H3), COPB31H3/(COPD04H3), and COPB33H3. Students entering the program prior to Fall 2021 will have two non-credit courses: COP30H3/(COPD02H3), and COPB31H3/(COPD04H3). These courses are taken in the first and third year of the program with the aim of providing students with the skills and knowledge needed to successfully navigate the placement experience. These credits are in addition to the 20.0 credits required for the degree. Work terms are evaluated by the program faculty, the Co-op Office, and the employer. A grade of CR (credit)/NCR (no credit) is recorded on the transcript.

For information on fees and status in Co-op programs, and certification of completion of Co-op programs, see the Co-operative Programs section or the International Development Studies Co-op section in the UTSC *Calendar*.

Calendar Section: **International Development Studies**

SPECIALIST (CO-OPERATIVE) PROGRAM IN LINGUISTICS (ARTS) - SCSPE0506C

For more information, please contact:

Academic Program Advisor: dls-ua@utsc.utoronto.ca

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

The Specialist (Co-op) Program in Linguistics 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 Linguistics 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 two Co-op work terms.

Enrolment Requirements
The minimum qualifications for entry are 4.0 credits, including LINA01H3 and LINA02H3, plus a cumulative GPA 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.

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 Linguistics.

Co-op Work Term Requirements
Students must satisfactorily complete two Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Specialist (Co-op) Program in Linguistics and have completed at least 9.0 credits, including LINB06H3 and LINB09H3.
In addition to their academic program requirements, Co-op students complete up to four Co-op specific courses. 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 cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and 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 Preparation Course Requirements:

1. COPB50H3/(COPD01H3) – Foundations for Success in Arts & Science Co-op
- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in Fall, Winter, or Summer of their first year at UTSC.
- Current UTSC students entering Co-op in April/May will complete this course in the Summer semester.
- Current UTSC students entering Co-op in July/August will complete this course in the Winter semester.

2. COPB51H3/(COPD03H3) – Preparing to Compete for your Work Term
- This course will be completed eight months in advance of the first scheduled work term.

3. COPB52H3/(COPD11H3) – Managing your Job Search and Transition to the Workplace
- This course will be completed four months in advance of the first work scheduled work term.

4. COPC98H3/(COPD12H3) – Integrating Your Work Term Experience Part I
- This course will be completed four months in advance of the second scheduled work term.

5. COPC99H3/(COPD13H3) – Integrating Your Work Term Experience Part II
- This course will be completed four months in advance of the third scheduled work term (for programs that require the completion of 3 work terms and/or four months in advance of any additional work terms that have been approved by the Arts and Science Co-op Office.

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, in turn, requires that students take courses during at least one Summer semester.

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

Calendar Section: Linguistics, Arts and Science Co-op

SPECIALIST (CO-OPERATIVE) PROGRAM IN MANAGEMENT (BACHELOR OF BUSINESS ADMINISTRATION) - SCSPE24315

Academic Director: S. Ahmed E-mail: mgmtss@utsc.utoronto.ca
Assistant Director: P. Brown E-mail: mgmtcoop@utsc.utoronto.ca

The Specialist (Co-operative) Program in Management is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in public and private enterprises. Depending on their needs and abilities, students work in areas such as accounting, public administration, auditing, communications, economic development, finance, human resources/personnel, information systems, marketing, policy, strategic planning and entrepreneurship.

This Program is designed to give students a broad exposure to all functional areas of Management as well as a solid grounding in Economics.

The Program operates on a trimester schedule, featuring three semesters (Fall, Winter and Summer) in each Calendar year. Students work or study in all three semesters for four years, or until graduation requirements are met. The Program requires eight four-month semesters of study and three four-month work terms. Students normally begin with three to five study terms (Fall, Winter and Summer), then alternate study and work terms. Students always conclude their degree with a study term.

Enrolment Requirements
Enrolment in this Program is limited.

1. Students applying directly from high school are admitted on the basis of academic performance. They must have completed Grade 12 English and Grade 12 Calculus.

Course Guidelines for Students Admitted to B.B.A. Co-op Programs Directly from High School
Students must complete the following courses in their first year of study: MGEA02H3, MGEA06H3, MATA34H3, MGAB01H3, MGAB02H3, MGHA12H3, MGMA01H3, and MGTA38H3.

2. Students requesting admission after the first year must request ONLY ONE Management Co-op Subject POSt on ACORN. Students may apply at the end of the Winter semester and/or at the end of the Summer semester. Application for admission

will be considered only for the round during which the student has made the Subject POSt request.

The minimum Cumulative Grade Point Average (CGPA) for Program admission is calculated for each application period, and is based on University of Toronto courses only. Normally, the minimum CGPA requirement for Co-op Programs will be higher than for non Co-op Programs. Decisions are made when all grades have been received.

Students must have completed the following courses (or their equivalent): MGEA02H3, MGEA06H3, and MATA34H3. However, [[MATA29H3 or MATA30H3 or MATA31H3 or (MATA32H3)] and [(MATA33H3) or MATA35H3 or MATA36H3 or MATA37H3]] may also be used to satisfy the calculus requirement. None of the courses listed above (or their equivalent) can be designated as CR/NCR. Of the total credits that students have completed when they apply, at least 4.0 credits must be in University of Toronto courses that have been graded (i.e., not designated as CR/NCR). Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be considered for admission to the Program.

Applicants must submit a resume and covering letter to the Management Co-op Office during the limited Subject POSt request period outlined on the Office of the Registrar website. For information on what to include in your resume and covering letter, visit the Management Co-op Office website. An interview may also be required.

CGPA Requirement to Remain in the Program
Students whose CGPA falls below 2.5 will be placed on probation; Students whose CGPA falls below 2.3 will be removed from Co-op, and students whose CGPA falls below 2.0 will be removed from all BBA programs. A student may request reinstatement to the non Co-op Specialist Program only if they complete at least 2.0 credits (none of which can be designated as CR/NCR) in the following session and raise their CGPA to at least 2.0. This opportunity will be provided only once.

Most internal admissions to Management Co-op will be done at the end of the Winter semester. Based on availability, a small number of students who apply at the end of the Summer semester may be admitted.

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

Co-op Work Term Requirements
All Co-op students must take MGTA38H3 prior to the commencement of their first work term. Students are advised to consult regularly with the Academic Director, or the Program Advisor if they have questions regarding course selection and scheduling. It is, however, the students' individual responsibility to ensure that they have completed the correct courses to make them eligible for each work term and that they have correctly completed program and degree requirements for graduation.

Students who apply after the first year and are successful in receiving a June offer to any Management Co-op program will be expected to complete a Co-op Advancing Your Career Exploration (AYCE) course beginning in the third week of June and continuing throughout the summer.

To compete for a work term a student must maintain a 2.5 CGPA, and must have completed:

1.For the first work term:
a) 7.0 credits, including: MGEA02H3, MGEA06H3, MGAB01H3, MGAB02H3, MGHA12H3, MGMA01H3, MATA34H3, and MGTA38H3. However, [[MATA29H3 or MATA30H3 or MATA31H3 or (MATA32H3)] and [(MATA33H3) or MATA35H3 or MATA36H3 or MATA37H3]] may also be used to satisfy the calculus requirement.

b) The Management Co-op Advancing Your Career Exploration (AYCE): [COPB11H3 and COPB12H3] or COPB10Y3.

2. For the second work term: 9.0 credits.

3. For the third work term: 11.0 credits.

For information on fees and status in Co-op programs, and certification of completion of Co-op programs, please see the Co-operative Programs section or the Management Co-op section in the UTSC *Calendar*.

Calendar Section: **Management**

SPECIALIST (CO-OPERATIVE) PROGRAM IN MANAGEMENT AND ACCOUNTING (BACHELOR OF BUSINESS ADMINISTRATION) -

SCSPE2432B

Academic Director: S. Ahmed E-mail: mgmtss@utsc.utoronto.ca
Assistant Director: P. Brown E-mail: mgmtcoop@utsc.utoronto.ca

The Specialist (Co-operative) Program in Management and Accounting is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in public and private enterprises. Depending on their needs and abilities, students work in areas such as accounting, public administration, auditing, communications, economic development, finance, human resources/personnel, information systems, marketing, policy, strategic planning and entrepreneurship.
This Program is designed for students interested in acquiring a concentrated core of accounting and related knowledge that is required to become a professional accountant. It provides a solid foundation to prepare students to become Chartered Professional Accountants after graduation. In addition, the Program provides students with the personal and professional attributes necessary to build a successful career in senior management.

This Program encompasses topics such as introductory to advanced financial and managerial accounting, assurance, taxation, economics, and finance. There is also a range of more advanced electives that cover topics and competencies that incorporate critical thinking and ethical decision making.

The Program operates on a trimester schedule, featuring three semesters (Fall, Winter and Summer) in each Calendar year. Students work or study in all three semesters for four years, or until graduation requirements are met. The Program requires eight four-month semesters of study and three four-month work terms. Students normally begin with three to five study terms (Fall, Winter and Summer), then alternate study and work terms. Students always conclude their degree with a study term.

Enrolment Requirements
Enrolment in this Program is limited.

1. Students applying directly from high school are admitted on the basis of academic performance. They must have completed Grade 12 English and Grade 12 Calculus.

Course Guidelines for Students Admitted to B.B.A. Co-op Programs Directly from High School
students must complete the following courses in their first year of study: MGEA02H3, MGEA06H3, MATA34H3, MGAB01H3, MGAB02H3, MGHA12H3, MGMA01H3 and MGTA38H3.

2. Students requesting admission after the first year must request ONLY ONE Management Co-op Subject POSt on ACORN. Students may apply at the end of the Winter semester and/or at the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request.

The minimum Cumulative Grade Point Average (CGPA) for Program admission is calculated for each application period and is based on University of Toronto courses only. Normally, the minimum CGPA requirement for Co-op Programs will be higher than for non Co-op Programs. Decisions are made when all grades have been received.

Students must have completed the following courses (or their equivalent): MGEA02H3, MGEA06H3, MATA34H3. However, [[MATA29H3 or MATA30H3 or MATA31H3 or (MATA32H3)] and [(MATA33H3) or MATA35H3 or MATA36H3 or MATA37H3]] may also be used to satisfy the calculus requirement. None of the courses listed above (or their equivalent) can be designated as CR/NCR. Of the total credits that students have completed when they apply, at least 4.0 credits must be in University of Toronto courses that have been graded (i.e., not designated as CR/NCR). Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be considered for admission to the Program.

Applicants must submit a resume and covering letter to the Management Co-op Office during the limited Subject POSt request period outlined on the Office of the Registrar website. For information on what to include in your resume and covering letter, visit the Management Co-op Office website. An interview may also be required.

CGPA Requirement to Remain in the Program
Students whose CGPA falls below 2.5 will be placed on probation; Students whose CGPA falls below 2.3 will be removed from Co-op, and students whose CGPA falls below 2.0 will be removed from all BBA programs. A student may request reinstatement to the non Co-op Specialist Program only if they complete at least 2.0 credits (none of which can be designated as CR/NCR) in the following session and raise their CGPA to at least 2.0. This opportunity will be provided only once.

Most internal admissions to Management Co-op will be done at the end of the Winter semester. Based on availability, a small number of students who apply at the end of the Summer semester may be admitted.

Program Requirements
Students must complete the program requirements as described in the Specialist Program in Management and Accounting.

Co-op Work Term Requirements
All Co-op students must take MGTA38H3 prior to the commencement of their first work term. Students are advised to consult

regularly with the Academic Director, or the Program Advisor if they have questions regarding course selection and scheduling. It is, however, the students' individual responsibility to ensure that they have completed the correct courses to make them eligible for each work term and that they have correctly completed program and degree requirements for graduation.

Students who apply after the first year and are successful in receiving a June offer to any Management Co-op program will be expected to complete a Co-op Advancing Your Career Exploration (AYCE) course beginning in the third week of June and continuing throughout the summer.

To compete for a work term a student must maintain a 2.5 CGPA, and must have completed:

1. For the first work term:
a) 7.0 credits, including: MGEA02H3, MGEA06H3, MGAB01H3, MGAB02H3, MGHA12H3, MGMA01H3, MGTA38H3, and MATA34H3. However, [[MATA29H3 or MATA30H3 or MATA31H3 or (MATA32H3)] and [(MATA33H3) or MATA35H3 or MATA36H3 or MATA37H3]] may also be used to satisfy the calculus requirement.
b) The Management Co-op Advancing Your Career Exploration (AYCE): [COPB11H3 and COPB12H3] or COPB10Y3.

2. For the second work term: 9.0 credits.

3. For the third work term: 11.0 credits.

For information on fees and status in Co-op programs, and certification of completion of Co-op programs, please see the Co-operative Programs section or the Management Co-op section in the UTSC *Calendar*.

Calendar Section: Management

SPECIALIST (CO-OPERATIVE) PROGRAM IN MANAGEMENT AND FINANCE (BACHELOR OF BUSINESS ADMINISTRATION) - SCSPE2432G

Academic Director: S. Ahmed E-mail: mgmtss@utsc.utoronto.ca
Assistant Director: P. Brown E-mail: mgmtcoop@utsc.utoronto.ca

The Specialist (Co-operative) Program in Management and Finance is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in public and private enterprises. Depending on their needs and abilities, students work in areas such as accounting, public administration, auditing, communications, economic development, finance, human resources/personnel, information systems, marketing, policy, strategic planning and entrepreneurship.

This Program builds on the core of the Specialist and Specialist Co-op Programs in Management, and offers a deeper and wider coverage of Finance topics. The Program will equip students with a comprehensive understanding of financial issues and concepts, and with a firm mastery of methodologies and problem-solving skills required in modern-day finance.

The Program operates on a trimester schedule, featuring three semesters (Fall, Winter and Summer) in each Calendar year. Students work or study in all three semesters for four years, or until graduation requirements are met. The Program requires eight four-month semesters of study and three four-month work terms. Students normally begin with three to five study terms (Fall, Winter and Summer), then alternate study and work terms. Students always conclude their degree with a study term.

Enrolment Requirements
Enrolment in this Program is limited.

1. Students applying directly from high school are admitted on the basis of academic performance. They must have completed Grade 12 English and Grade 12 Calculus.

Course Guidelines for Students Admitted to B.B.A. Co-op Programs Directly from High School
Students must complete the following courses in their first year of study: MGEA02H3, MGEA06H3, MATA34H3, MGAB01H3, MGAB02H3, MGHA12H3, MGMA01H3 and MGTA38H3.

2. Students requesting admission after the first year must request ONLY ONE Management Co-op Subject POSt on ACORN. Students may apply at the end of the Winter semester and/or at the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request.

The minimum Cumulative Grade Point Average (CGPA) for Program admission is calculated for each application period and is based on University of Toronto courses only. Normally, the minimum CGPA requirement for Co-op Programs will be higher than for non Co-op Programs. Decisions are made when all grades have been received.

Students must have completed the following courses (or their equivalent): MGEA02H3, MGEA06H3, and MATA34H3. However, [[MATA29H3 or MATA30H3 or MATA31H3 or (MATA32H3)] and [(MATA33H3) or MATA35H3 or MATA36H3 or MATA37H3]] may also be used to satisfy the calculus requirement. None of the courses listed above (or their equivalent) can be designated as CR/NCR. Of the total credits that students have completed when they apply, at least 4.0 credits must be in University of Toronto courses that have been graded (i.e., not designated as CR/NCR). Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be considered for admission to the Program.

Applicants must submit a resume and covering letter to the Management Co-op Office during the limited Subject POSt request period outlined on the Office of the Registrar website. For information on what to include in your resume and covering letter, visit the Management Co-op Office website. An interview may also be required.

CGPA Requirement to Remain in the Program
Students whose CGPA falls below 2.5 will be placed on probation; Students whose CGPA falls below 2.3 will be removed from Co-op, and students whose CGPA falls below 2.0 will be removed from all BBA programs. A student may request reinstatement to the non Co-op Specialist Program only if they complete at least 2.0 credits (none of which can be designated as CR/NCR) in the following session and raise their CGPA to at least 2.0. This opportunity will be provided only once.

Most internal admissions to Management Co-op will be done at the end of the Winter semester. Based on availability, a small number of students who apply at the end of the Summer semester may be admitted.

Program Requirements
Students must complete the program requirements as described in the Specialist Program in Management and Finance.

Co-op Work Term Requirements
All Co-op students must take MGTA38H3 prior to the commencement of their first work term. Students are advised to consult regularly with the Academic Director, or the Program Advisor if they have questions regarding course selection and scheduling. It is, however, the student's individual responsibility to ensure that they have completed the correct courses to make them eligible for each work term and that they have correctly completed the program and degree requirements for graduation.

Students who apply after the first year and are successful in receiving a June offer to any Management Co-op program will be expected to complete a Co-op Advancing Your Career Exploration (AYCE) course beginning in the third week of June and continuing throughout the summer.

To compete for a work term a student must maintain a 2.5 CGPA, and must have completed:

1. For the first work term:
a) 7.0 credits, including: MGEA02H3, MGEA06H3, MGAB01H3, MGAB02H3, MGHA12H3, MGMA01H3, MGTA38H3, and MATA34H3. However, [[MATA29H3 or MATA30H3 or MATA31H3 or (MATA32H3)] and [(MATA33H3) or MATA35H3 or MATA36H3 or MATA37H3]] may also be used to satisfy the calculus requirement.
b) The Management Co-op Advancing Your Career Exploration (AYCE): [COPB11H3 and COPB12H3] or COPB10Y3.

2. For the second work term: 9.0 credits.

3. For the third work term: 11.0 credits.

For information on fees and status in Co-op programs, and certification of completion of Co-op programs, please see the Co-operative Programs section or the Management Co-op section in the UTSC *Calendar*.

Calendar Section: **Management**

SPECIALIST (CO-OPERATIVE) PROGRAM IN MANAGEMENT AND HUMAN RESOURCES (BACHELOR OF BUSINESS ADMINISTRATION) - SCSPE2432J

Academic Director: S. Ahmed E-mail: mgmtss@utsc.utoronto.ca
Assistant Director: P. Brown E-mail: mgmtcoop@utsc.utoronto.ca

The Specialist (Co-operative) Program in Management and Human Resources is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in public and private enterprises. Depending on their needs and abilities, students work in areas such as accounting, public administration, auditing, communications, economic development, finance, human resources/personnel, information systems, marketing, policy, strategic planning and entrepreneurship.

This Program is designed to give students a broad exposure to all functional areas of Management as well as specialization in the area of Human Resource Management (HRM). HRM is an area that encompasses topics such as recruitment and selection, performance management, compensation, and industrial relations. By taking a B.B.A. with a specialist in HRM, you will be qualified to work in any area of Human Resource Management, to take a graduate degree in HRM (potentially with advanced standing), and you will be well prepared for the CHRP certification exam required by many organizations for upper-level HR positions. In order to qualify for CHRP certification, you must maintain an average of at least 70% across the 9 courses required by CHRP and at least 65% in each of those 9 courses.

By completing this Program, you will cover the nine required CHRP courses.

The Program operates on a trimester schedule, featuring three semesters (Fall, Winter and Summer) in each Calendar year. Students work or study in all three semesters for four years, or until graduation requirements are met. The Program requires eight four-month semesters of study and three four-month work terms. Students normally begin with three to five study terms (Fall, Winter and Summer), then alternate study and work terms. Students always conclude their degree with a study term.

Enrolment Requirements
Enrolment in this Program is limited.

1. Students applying directly from high school are admitted on the basis of academic performance. They must have completed Grade 12 English and Grade 12 Calculus.

Course Guidelines for Students Admitted to B.B.A. Co-op Programs Directly from High School
Students must complete the following courses in their first year of study: MGEA02H3, MGEA06H3, MATA34H3, MGAB01H3, MGAB02H3, MGHA12H3, MGMA01H3 and MGTA38H3.

2. Students requesting admission after the first year must request ONLY ONE Management Co-op Subject POSt on ACORN. Students may apply at the end of the Winter semester and/or at the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request.

The minimum Cumulative Grade Point Average (CGPA) for Program admission is calculated for each application period and is based on University of Toronto courses only. Normally, the minimum CGPA requirement for Co-op Programs will be higher than for non Co-op Programs. Decisions are made when all grades have been received.

Students must have completed the following courses (or their equivalent): MGEA02H3, MGEA06H3, and MATA34H3. However, [[MATA29H3 or MATA30H3 or MATA31H3 or (MATA32H3)] and [(MATA33H3) or MATA35H3 or MATA36H3 or MATA37H3]] may also be used to satisfy the calculus requirement. None of the courses listed above (or their equivalent) can be designated as CR/NCR. Of the total credits that students have completed when they apply, at least 4.0 credits must be in University of Toronto courses that have been graded (i.e., not designated as CR/NCR). Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be considered for admission to the Program.

Applicants must submit a resume and covering letter to the Management Co-op Office during the limited Subject POSt request period outlined on the Office of the Registrar website. For information on what to include in your resume and covering letter, visit the Management Co-op Office website. An interview may also be required.

CGPA Requirement to Remain in the Program
Students whose CGPA falls below 2.5 will be placed on probation; Students whose CGPA falls below 2.3 will be removed from Co-op, and students whose CGPA falls below 2.0 will be removed from all BBA programs. A student may request reinstatement to the non Co-op Specialist Program only if they complete at least 2.0 credits (none of which can be designated as CR/NCR) in the following session and raise their CGPA to at least 2.0. This opportunity will be provided only once.

Most internal admissions to Management Co-op will be done at the end of the Winter semester. Based on availability, a small number of students who apply at the end of the Summer semester may be admitted.

Program Requirements
Students must complete the program requirements as described in the Specialist Program in Management and Human Resources.

Co-op Work Term Requirements
All Co-op students must take MGTA38H3 prior to the commencement of their first work term. Students are advised to consult

regularly with the Academic Director, or the Program Advisor if they have questions regarding course selection and scheduling. It is, however, the student's individual responsibility to ensure that they have completed the correct courses to make them eligible for each work term and that they have correctly completed the program and degree requirements for graduation.

Students who apply after the first year and are successful in receiving a June offer to any Management Co-op program will be expected to complete a Co-op Advancing Your Career Exploration (AYCE) course beginning in the third week of June and continuing throughout the summer.

To compete for a work term a student must maintain a 2.5 CGPA, and must have completed:

1. For the first work term:
a) 7.0 credits, including: MGEA02H3, MGEA06H3, MGAB01H3, MGAB02H3, MGHA12H3, MGMA01H3, MGTA38H3, and MATA34H3. However, [[MATA29H3 or MATA30H3 or MATA31H3 or (MATA32H3)] and [(MATA33H3) or MATA35H3 or MATA36H3 or MATA37H3]] may also be used to satisfy the calculus requirement.
b) The Management Co-op Advancing Your Career Exploration (AYCE): [COPB11H3 and COPB12H3] or COPB10Y3.

2. For the second work term: 9.0 credits.

3. For the third work term: 11.0 credits.

For information on fees and status in Co-op programs, and certification of completion of Co-op programs, please see the Co-operative Programs section or the Management Co-op section in the UTSC *Calendar*.

Calendar Section: Management

SPECIALIST (CO-OPERATIVE) PROGRAM IN MANAGEMENT AND INFORMATION TECHNOLOGY (BACHELOR OF BUSINESS ADMINISTRATION) - SCSPE2431R

Academic Director: S. Ahmed E-mail: mgmtss@utsc.utoronto.ca
Assistant Director: P. Brown E-mail: mgmtcoop@utsc.utoronto.ca

The Specialist (Co-operative) Program in Management and Information Technology is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in public and private enterprises. Depending on their needs and abilities, students work in areas such as accounting, public administration, auditing, communications, economic development, finance, human resources/personnel, information systems, marketing, policy, strategic planning and entrepreneurship.

This Program is designed to give students a broad exposure to all functional areas of Management as well as a solid grounding in Computer Science.

The Program operates on a trimester schedule, featuring three semesters (Fall, Winter and Summer) in each Calendar year. Students work or study in all three semesters for four years, or until graduation requirements are met. The Program requires eight four-month semesters of study and three four-month work terms. Students normally begin with three to five study terms (Fall, Winter and Summer), then alternate study and work terms. Students always conclude their degree with a study term.

Enrolment Requirements
Enrolment in this Program is limited.

1. Students applying directly from high school are admitted on the basis of academic performance. They must have completed Grade 12 English and Grade 12 Calculus.

Course Guidelines for Students Admitted to B.B.A. Co-op Programs Directly from High School
Students must complete the following courses in their first year of study: MGEA02H3, MGEA06H3, CSCA08H3, CSCA48H3, MATA34H3, MGHA12H3, MGMA01H3 and MGTA38H3.

2. Students requesting admission after first year must request ONLY ONE Management Co-op Subject POSt on ACORN. Students may apply at the end of the Winter semester and/or at the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request.

The minimum Cumulative Grade Point Average (CGPA) for Program admission is calculated for each application period and is based on University of Toronto courses only. Normally, the minimum CGPA requirement for Co-op Programs will be higher than for non Co-op Programs. Decisions are made when all grades have been received.

Students must have completed the following courses (or their equivalent): MGEA02H3, MGEA06H3, and MATA34H3. However, [[MATA29H3 or MATA30H3 or MATA31H3 or (MATA32H3)] and [(MATA33H3) or MATA35H3 or MATA36H3 or MATA37H3]] may also be used to satisfy the calculus requirement. None of the courses listed above (or their equivalent) can be designated as CR/NCR. Of the total credits that students have completed when they apply, at least 4.0 credits must be in University of Toronto courses that have been graded (i.e., not designated as CR/NCR). Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be considered for admission to the Program.

Applicants must submit a resume and covering letter to the Management Co-op Office during the limited Subject POSt request period outlined on the Office of the Registrar website. For information on what to include in your resume and covering letter, visit the Management Co-op Office website. An interview may also be required.

CGPA Requirement to Remain in the Program
Students whose CGPA falls below 2.5 will be placed on probation; Students whose CGPA falls below 2.3 will be removed from Co-op, and students whose CGPA falls below 2.0 will be removed from all BBA programs. A student may request reinstatement to the non Co-op Specialist Program only if they complete at least 2.0 credits (none of which can be designated as CR/NCR) in the following session and raise their CGPA to at least 2.0. This opportunity will be provided only once.

Most internal admissions to Management Co-op will be done at the end of the Winter semester. Based on availability, a small number of students who apply at the end of the Summer semester may be admitted.

Program Requirements
Students must complete the program requirements as described in the Specialist Program in Management and Information Technology.

Co-op Work Term Requirements
All Co-op students must take MGTA38H3 prior to the commencement of their first work term. Students are advised to consult regularly with the Academic Director, or the Program Advisor if they have questions regarding course selection and scheduling. It is, however, the students' individual responsibility to ensure that they have completed the correct courses to make them eligible for each work term and that they have correctly completed program and degree requirements for graduation.

Students who apply after the first year and are successful in receiving a June offer to any Management Co-op program will be expected to complete the Advancing Your Career Exploration (AYCE) course beginning in the third week of June and continuing throughout the summer.

To compete for a work term a student must maintain a 2.5 CGPA, and must have completed:

1. For the first work term:
a) 7.0 credits, including: MGEA02H3, MGEA06H3, MGAB01H3, MGAB02H3, MGHA12H3, MGMA01H3, MGTA38H3, and MATA34H3. However, [[MATA29H3 or MATA30H3 or MATA31H3 or (MATA32H3)] and [(MATA33H3) or MATA35H3 or MATA36H3 or MATA37H3]] may also be used to satisfy the calculus requirement.
b) The Management Co-op Advancing Your Career Exploration course (AYCE): [COPB11H3 and COPB12H3] or COPB10Y3.

2. For the second work term: 9.0 credits.

3. For the third work term: 11.0 credits.

For information on fees and status in Co-op programs, and certification of completion of Co-op programs, please see the Co-operative Programs section or the Management Co-op section in the UTSC *Calendar*.

Calendar Section: Management

SPECIALIST (CO-OPERATIVE) PROGRAM IN MANAGEMENT AND INTERNATIONAL BUSINESS (BACHELOR OF BUSINESS ADMINISTRATION) - SCSPE2431J

Academic Director: J. Trougakos Email: mibss@utsc.utoronto.ca
Assistant Director: P. Brown Email: mgmtcoop@utsc.utoronto.ca

The Specialist (Co-operative) Program in Management and International Business (MIB) is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in public and private enterprises. Depending on their needs and abilities, students work in areas such as accounting, public administration, communications, economic development, finance, human resources/personnel, information systems, marketing, policy, strategic planning and entrepreneurship.

This Specialist (Co-operative) Program in Management and International Business is designed to give students a broad exposure to all functional areas of Management while providing a unique understanding of the business world in a global context. Academically, the program requires a language development component and a number of specially designed courses emphasizing international business. Through the high-level curricular programming as well as the practical experiences abroad, students will experience an emphasis on cross-cultural communications and leadership, while simultaneously maintaining a quantitative and analytical focus. Students will also have the opportunity to maintain a more general academic approach or use their electives to focus on a specific discipline within the Management Program.

The Program operates on a trimester schedule, featuring three semesters (Fall, Winter and Summer) in each Calendar year. Students work or study in all three semesters for four years, or until graduation requirements are met. The Program requires eight four-month semesters of study and three four-month work terms. At least one of the work terms and one of the study terms must be outside of Canada. Students normally begin with three to five study terms (Fall, Winter and Summer), then alternate study and work terms. Students always conclude their degree with a study term.

For more information on the Certificates available for students in the Specialist (Co-operative) Program in Management and International Business, students should refer to the Certificates section of the Calendar.

Enrolment Requirements
Enrolment in this Program is limited.

Most students will be accepted into the program directly from secondary school. Transfer students and current UTSC students may also apply for admission, but generally, only those students who are in the early stages of their academic careers will be considered. Admission is based on the applicant's academic performance as well as a supplementary application, and an interview process. Interviews are held in February, March and April for students who pass the initial screening. Successful students will demonstrate strength in academics, extra-curricular and volunteer activities, as well as an interest in, and focus on, developing global competencies. For further information please see the Co-operative Programs section in this Calendar and the MIB section of the Department of Management website.

Course Guidelines for Students Admitted to B.B.A. Co-op Programs Directly from High School
Students must complete the following courses in their first year of study: MGEA02H3, MGEA06H3, MATA34H3, MGAB01H3, MGAB02H3, MGIA01H3, MGIA12H3, MGIB02H3, and MGTA38H3.

Course Guidelines for Students Admitted to B.B.A. Co-op Programs from other UTSC Programs
Students requesting admission after the first year must request ONLY ONE Management Co-op Subject POSt on ACORN. Students may apply at the end of the Winter semester and/or at the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request.

The minimum Cumulative Grade Point Average (CGPA) for Program admission is calculated for each application period and is based on University of Toronto courses only. Normally, the minimum CGPA requirement for Co-op Programs will be higher than for non Co-op Programs. Decisions are made when all grades have been received.

Students must have completed the following courses (or their equivalent): MGEA02H3, MGEA06H3, and MATA34H3. However, [[MATA29H3 or MATA30H3 or MATA31H3 or (MATA32H3)] and [(MATA33H3) or MATA35H3 or MATA36H3 or MATA37H3]] may also be used to satisfy the calculus requirement. None of the courses listed above (or their equivalent) can be designated as CR/NCR. Of the total credits that students have completed when they apply, at least 4.0 credits must be in University of Toronto courses that have been graded (i.e., not designated as CR/NCR). Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be considered for admission to the Program.

Applicants must submit a resume and covering letter to the Management Co-op Office during the limited Subject POSt request period outlined on the Office of the Registrar website. For information on what to include in your resume and covering letter, visit the Management Co-op Office website. An interview may also be required.

Most internal admissions to Management Co-op will be done at the end of the Winter semester. Based on availability, a small number of students who apply at the end of the Summer semester may be admitted.

CGPA Requirement to Remain in the Program
Students whose CGPA falls below 2.5 will be placed on probation; Students whose CGPA falls below 2.3 will be removed from Co-op, and students whose CGPA falls below 2.0 will be removed from all BBA programs. A student may request reinstatement to the non Co-op Specialist Program only if they complete at least 2.0 credits (none of which can be designated as CR/NCR) in the following session and raise their CGPA to at least 2.0. This opportunity will be provided only

once.

Program Requirements
The Program requires the completion of 13.5 credits as part of a twenty-credit B.B.A. degree.

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

1. 8.0 credits in Management as follows:
MGIA01H3 Principles of International Marketing
MGTA38H3 Management Communications
MGAB01H3 Introductory Financial Accounting I
MGIA12H3 International Human Resources
MGIB01H3 Global Marketing
MGAB02H3 Introductory Financial Accounting II
MGIB02H3 International Organizational Behaviour
MGAB03H3 Introductory Management Accounting
MGFB10H3 Principles of Finance
MGIC01H3 International Corporate Strategy
MGIC02H3 International Leadership Skills
MGOC10H3 Analytics for Decision Making
MGFC10H3 Intermediate Finance
MGOC20H3 Operations Management
MGID40H3 Introduction to International Business Law
MGID79H3 International Capstone Case Analysis

2. 0.5 credit in Calculus from:
MATA34H3
or
[[MATA29H3/MATA30H3/MATA31H3/(MATA32H3)] and [(MATA33H3)/MATA35H3/MATA36H3/MATA37H3]]

3. 3.0 credits in Economics for Management Studies as follows:
MGEA02H3 Introduction to Microeconomics: A Mathematical Approach
MGEA06H3 Introduction to Macroeconomics: A Mathematical Approach
MGEB02H3 Price Theory: A Mathematical Approach
MGEB06H3 Macroeconomic Theory and Policy: A Mathematical Approach
MGEB11H3 Quantitative Methods in Economics I
MGEB12H3 Quantitative Methods in Economics II

4. 2.0 credits in Foreign Languages:
If those courses are taken at UTSC, they would be in either Language (LGG) or French (FRE) courses. For courses taken at UTSC, student language skills will be assessed by the Department of Language Studies before being formally placed in the course. The intent of the requirement is to have gained some proficiency in a foreign language, students should ideally take 2.0 credits in one language or at least 1.5 credits in the same language. Students may, with the permission of the MIB Academic Director, take 1.0 credit in one language and 1.0 credit in another.
If courses are taken elsewhere, they should be courses in language proficiency, or if the student already has some proficiency in the language in question, the course should be in the literature of that language and delivered in that language.

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

- GASB30H3
- ANTA02H3
- ANTB20H3
- GGRA02H3
- IDSB01H3
- IDSC12H3
- POLB80H3
- POLB81H3

Co-op Work Term Requirements
All Co-op students must take MGTA38H3 prior to the commencement of their first work term. Students are advised to consult regularly with the Academic Director, or the Program Advisor if they have questions regarding course selection and scheduling. It is, however, the student's individual responsibility to ensure that they have completed the correct courses to make them eligible for each work term and that they have correctly completed the program and degree requirements for graduation.

Students who apply after the first year and are successful in receiving a June offer to any Management Co-op program will be expected to complete a Co-op Advancing Your Career Exploration (AYCE) course beginning in the third week of June, and continuing throughout the summer.

To compete for a work term a student must maintain a 2.5 CGPA, and must have completed:

1. For the first work term:
a) 7.0 credits, including: MGEA02H3, MGEA06H3, MGAB01H3, MGAB02H3, MGIA12H3, MGIB02H3, MGMA01H3, MGTA38H3, and MATA34H3. However [MATA29H3 or MATA30H3 or MATA31H3] and [MATA35H3 or MATA36H3 or MATA37H3] may also be used to satisfy the calculus requirement.
b) The Management Co-op Advancing Your Career Exploration (AYCE): [COPB13H3 and COPB14H3] or COPB10Y3.

2. For the second work term: 9.0 credits.

3. For the third work term: 11.0 credits.

International Work and Study Term Requirements
Students are required to complete at least one work term outside of Canada. The location of the international placements will vary according to student interest, availability of positions, practicability and safety of an area, as well as established international relationships.

Students are also required to complete one study term outside of Canada, typically in their third year with an approved partner University, and may be required to complete some of the program requirements during this time. Although scholarships may be available, students are expected to budget for the additional costs of studying abroad.

For information on fees and status in Co-op programs, and certification of completion of Co-op programs, please see the Co-operative Programs section or the Management Co-op section in the UTSC *Calendar*.

Calendar Section: Management

SPECIALIST (CO-OPERATIVE) PROGRAM IN MANAGEMENT AND MARKETING (BACHELOR OF BUSINESS ADMINISTRATION) - SCSPE2432N

Academic Director: S. Ahmed E-mail: mgmtss@utsc.utoronto.ca
Assistant Director: P. Brown E-mail: mgmtcoop@utsc.utoronto.ca

The Specialist (Co-operative) Program in Management and Marketing is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in public and private enterprises. Depending on their needs and abilities, students work in areas such as accounting, public administration, auditing, communications, economic development, finance, human resources/personnel, information systems, marketing, policy, strategic planning and entrepreneurship.

This Program gives students the perspective of the overall organization and beyond. In addition to the company focus, Marketing also ensures that students take an external orientation by having an in-depth understanding of the competition and the consumer. While developing a good understanding of all the issues involved in developing a marketing strategy, the student will learn to implement the tools of marketing tactics.

The Program operates on a trimester schedule, featuring three semesters (Fall, Winter and Summer) in each Calendar year. Students work or study in all three semesters for four years, or until graduation requirements are met. The Program requires eight four-month semesters of study and three four-month work terms. Students normally begin with three to five study terms (Fall, Winter and Summer), then alternate study and work terms. Students always conclude their degree with a study term.

Enrolment Requirements
Enrolment in this Program is limited.

1. Students applying directly from high school are admitted on the basis of academic performance. They must have completed Grade 12 English and Grade 12 Calculus.

Course Guidelines for Students Admitted to B.B.A. Co-op Programs Directly from High School

Students must complete the following courses in their first year of study: MGEA02H3, MGEA06H3, MATA34H3, MGAB01H3, MGAB02H3, MGHA12H3, MGMA01H3 and MGTA38H3.

2. Students requesting admission after the first year must request ONLY ONE Management Co-op Subject POSt on ACORN. Students may apply at the end of the Winter semester and/or at the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request.

The minimum Cumulative Grade Point Average (CGPA) for Program admission is calculated for each application period and is based on University of Toronto courses only. Normally, the minimum CGPA requirement for Co-op Programs will be higher than for non Co-op Programs. Decisions are made when all grades have been received.

Students must have completed the following courses (or their equivalent): MGEA02H3, MGEA06H3, and MATA34H3. However [[MATA29H3 or MATA30H3 or MATA31H3 or (MATA32H3)] and [(MATA33H3) or MATA35H3 or MATA36H3 or MATA37H3]] may also be used to satisfy the calculus requirement. None of the courses listed above (or their equivalent) can be designated as CR/NCR. Of the total credits that students have completed when they apply, at least 4.0 credits must be in University of Toronto courses that have been graded (i.e., not designated as CR/NCR). Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be considered for admission to the Program.

Applicants must submit a resume and covering letter to the Management Co-op Office during the limited Subject POSt request period outlined on the Office of the Registrar website. For information on what to include in your resume and covering letter, visit the Management Co-op Office website. An interview may also be required.

CGPA Requirement to Remain in the Program
Students whose CGPA falls below 2.5 will be placed on probation; Students whose CGPA falls below 2.3 will be removed from Co-op, and students whose CGPA falls below 2.0 will be removed from all BBA programs. A student may request reinstatement to the non Co-op Specialist Program only if they complete at least 2.0 credits (none of which can be designated as CR/NCR) in the following session and raise their CGPA to at least 2.0. This opportunity will be provided only once.

Most internal admissions to Management Co-op will be done at the end of the Winter semester. Based on availability, a small number of students who apply at the end of the Summer semester may be admitted.

Program Requirements
Students must complete the program requirements as described in the Specialist Program in Management and Marketing.

Co-op Work Term Requirements
All Co-op students must take MGTA38H3 prior to the commencement of their first work term. Students are advised to consult regularly with the Academic Director, or the Program Advisor if they have questions regarding course selection and scheduling. It is, however, the student's individual responsibility to ensure that they have completed the correct courses to make them eligible for each work term and that they have correctly completed the program and degree requirements for graduation.

Students who apply after the first year and are successful in receiving a June offer to any Management Co-op program will be expected to complete a Co-op Advancing Your Career Exploration (AYCE) beginning in the third week of June and continuing throughout the summer.

To compete for a work term a student must maintain a 2.5 CGPA, and must have completed:

1. For the first work term:
a) 7.0 credits, including: MGEA02H3, MGEA06H3, MGAB01H3, MGAB02H3, MGHA12H3, MGMA01H3, MGTA38H3, and MATA34H3. However, [[MATA29H3 or MATA30H3 or MATA31H3 or (MATA32H3)] and [(MATA33H3) or MATA35H3 or MATA36H3 or MATA37H3]] may also be used to satisfy the calculus requirement.
b) The Management Co-op Advancing Your Career Exploration (AYCE): [COPB11H3 and COPB12H3] or COPB10Y3.

2. For the second work term: 9.0 credits.

3. For the third work term: 11.0 credits.

For information on fees and status in Co-op programs, and certification of completion of Co-op programs, please see the Co-operative Programs section or the Management Co-op section in the UTSC *Calendar*.

Calendar Section: Management

SPECIALIST (CO-OPERATIVE) PROGRAM IN MATHEMATICS - Comprehensive Stream (SCIENCE) - SCSPE1165U

Academic Program Advisor: S. Calanza susan.calanza@utoronto.ca
Co-op Program Coordinator: C. Dixon coopsuccess.utsc@utoronto.ca
MAT Specialist Program Supervisor: M. Cavers michael.cavers@utoronto.ca

The Specialist (Co-operative) Program in Mathematics 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 Mathematics upon graduation.
In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term and Course requirements.

The **Comprehensive Stream** provides a broad and deep knowledge of mathematics at the undergraduate level. It is the recommended program for students who plan to pursue graduate study in mathematics, but it is also suitable for other career paths.

Enrolment Requirements

Enrolment in the Specialist (Co-operative) Program in Mathematics is limited. Students may apply to enter the program after completing 4.0 credits, and must meet the requirements described below:

1. Students already admitted to the UTSC Year 1 Mathematics admissions category:

Required Courses:

Students must have passed the following CSC and MAT courses: [CSCA08H3 or CSCA20H3], [CSCA67H3 or MATA67H3], MATA22H3, MATA31H3, and MATA37H3.

Required Grades:
Students that meet all of the following requirements will be admitted to a Mathematics Specialist POSt* of their choice:
a. A cumulative grade point average (CGPA) of at least 2.5 over the following courses: CSC/MATA67H, MATA22H3, MATA31H3, and MATA37H3; and
b. A final grade of at least B in two of the following: CSC/MATA67H3, MATA22H3, and MATA37H3.

*Students must select one stream of the Mathematics Specialist.

2. Students admitted to other UTSC Year 1 admissions categories:

Students that have been admitted to other CMS admissions categories (Computer Science or Statistics) or any other of the UTSC Year 1 admissions categories are eligible to apply for a Mathematics Specialist POSt. Admission will be based on academic performance in the required A-level courses, identified above. The admission requirements change each year depending on available spaces and the pool of eligible applicants, and students are cautioned that there is no guarantee of admission; as such, students are strongly advised to plan to enroll in backup programs.

For more information about the admission requirements, please visit the following CMS webpage.

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. Students must have completed the required A-level CSC and MAT courses, and achieved the required grades, described in the Enrolment Requirements for the Specialist in Mathematics. In addition, they must also have achieved a CGPA of at least 2.5 across all attempted courses.

Prospective Co-op Students:
Prospective students (i.e., those not yet admitted to a Co-op Degree POSt) must meet the enrolment requirements noted above and have a CGPA of at least 2.5 across all attempted courses.

Students must submit a program request on ACORN. 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 the student's application not being considered.

Academic Program Requirements
Students must complete the program requirements as described in the Specialist Program in Mathematics.

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 Mathematics and have completed at least 7.0 credits, achieve a cumulative GPA of 2.5 or higher, and complete COPB50H3 and COPB51H3.

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: COPC01H3 (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 (COPC01H3) 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 Co-operative Programs section and the Arts and Science Co-op section in the UTSC *Calendar*.

Calendar Section: **Mathematics**, **Arts and Science Co-op**

SPECIALIST (CO-OPERATIVE) PROGRAM IN MATHEMATICS - Statistics Stream (SCIENCE) - SCSPE11655M

Academic Program Advisor: S. Calanza susan.calanza@utoronto.ca
Co-op Program Coordinator: C. Dixon coopsuccess.utsc@utoronto.ca
MAT Specialist Program Supervisor: M. Cavers michael.cavers@utoronto.ca

The Specialist (Co-operative) Program in Mathematics 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 Mathematics upon graduation.
In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term and Course requirements.

The **Statistics Stream** provides greater exposure to statistics, and the areas of mathematics most closely associated with it. This stream prepares students for careers in industry, or for graduate study in certain mathematically-oriented subjects, including statistics and financial mathematics.

Enrolment Requirements

Enrolment in the Specialist (Co-operative) Program in Mathematics is limited. Students may apply to enter the program after completing 4.0 credits, and must meet the requirements described below:

1. Students already admitted to the UTSC Year 1 Mathematics admissions category:

Required Courses:

Students must have passed the following CSC and MAT courses: [CSCA08H3 or CSCA20H3], [CSCA67H3 or MATA67H3],

MATA22H3, MATA31H3, and MATA37H3.

Required Grades:
Students that meet all of the following requirements will be admitted to a Mathematics Specialist POSt* of their choice:
a. A cumulative grade point average (CGPA) of at least 2.5 over the following courses: CSC/MATA67H, MATA22H3, MATA31H3, and MATA37H3; and
b. A final grade of at least B in two of the following: CSC/MATA67H3, MATA22H3, and MATA37H3.

*Students must select one stream of the Mathematics Specialist.

2. Students admitted to other UTSC Year 1 admissions categories:

Students that have been admitted to other CMS admissions categories (Computer Science or Statistics) or any other of the UTSC Year 1 admissions categories are eligible to apply for a Mathematics Specialist POSt. Admission will be based on academic performance in the required A-level courses, identified above. The admission requirements change each year depending on available spaces and the pool of eligible applicants, and students are cautioned that there is no guarantee of admission; as such, students are strongly advised to plan to enroll in backup programs.

For more information about the admission requirements, please visit the following CMS webpage.

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. Students must have completed the required A-level CSC and MAT courses, and achieved the required grades, described in the Enrolment Requirements for the Specialist in Mathematics. In addition, they must also have achieved a CGPA of at least 2.5 across all attempted courses.

Prospective Co-op Students:
Prospective students (i.e., those not yet admitted to a Co-op Degree POSt) must meet the enrolment requirements noted above and have a CGPA of at least 2.5 across all attempted courses.

Students must submit a program request on ACORN. 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 the student's application not being considered.

Academic Program Requirements
Students must complete the program requirements as described in the Specialist Program in Mathematics.

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 Mathematics and have completed at least 7.0 credits, achieve a cumulative GPA of 2.5 or higher, and complete COPB50H3 and COPB51H3.

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: COPC01H3 (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 (COPC01H3) 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 Co-operative Programs section and the Arts and Science Co-op section in the UTSC *Calendar*.

Calendar Section: Mathematics, Arts and Science Co-op

SPECIALIST (CO-OPERATIVE) PROGRAM IN MATHEMATICS - Teaching Stream (SCIENCE) - SCSPE1166T

Academic Program Advisor: S. Calanza susan.calanza@utoronto.ca
Co-op Program Coordinator: C. Dixon coopsuccess.utsc@utoronto.ca
MAT Specialist Program Supervisor: M. Cavers michael.cavers@utoronto.ca

The Specialist (Co-operative) Program in Mathematics 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 Mathematics upon graduation.
In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term and Course requirements.

The **Teaching Stream** is intended for students with a serious interest in mathematics but whose career objectives lie in mathematics education at the elementary or secondary level.

Enrolment Requirements

Enrolment in the Specialist (Co-operative) Program in Mathematics is limited. Students may apply to enter the program after completing 4.0 credits, and must meet the requirements described below:

1. Students already admitted to the UTSC Year 1 Mathematics admissions category:

Required Courses:

Students must have passed the following CSC and MAT courses: [CSCA08H3 or CSCA20H3], [CSCA67H3 or MATA67H3], MATA22H3, MATA31H3, and MATA37H3.

Required Grades:
Students that meet all of the following requirements will be admitted to a Mathematics Specialist POSt* of their choice:
a. A cumulative grade point average (CGPA) of at least 2.5 over the following courses: CSC/MATA67H, MATA22H3, MATA31H3, and MATA37H3; and
b. A final grade of at least B in two of the following: CSC/MATA67H3, MATA22H3, and MATA37H3.

*Students must select one stream of the Mathematics Specialist.

2. Students admitted to other UTSC Year 1 admissions categories:

Students that have been admitted to other CMS admissions categories (Computer Science or Statistics) or any other of the UTSC Year 1 admissions categories are eligible to apply for a Mathematics Specialist POSt. Admission will be based on academic performance in the required A-level courses, identified above. The admission requirements change each year depending on available spaces and the pool of eligible applicants, and students are cautioned that there is no guarantee of admission; as such, students are strongly advised to plan to enroll in backup programs.

For more information about the admission requirements, please visit the following CMS webpage.

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. Students must have completed the required A-level CSC and MAT courses, and achieved the required grades, described in the Enrolment Requirements for the Specialist in Mathematics. In addition, they must also have achieved a CGPA of at least 2.5 across all attempted courses.

Prospective Co-op Students:
Prospective students (i.e., those not yet admitted to a Co-op Degree POSt) must meet the enrolment requirements noted above and have a CGPA of at least 2.5 across all attempted courses.

Students must submit a program request on ACORN. 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 the student's application not being considered.

Academic Program Requirements
Students must complete the program requirements as described in the Specialist Program in Mathematics.

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 Mathematics and have completed at least 7.0 credits, achieve a cumulative GPA of 2.5 or higher, and complete COPB50H3 and COPB51H3.

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: COPC01H3 (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 (COPC01H3) 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 Co-operative Programs section and the Arts and Science Co-op section in the UTSC *Calendar*.

Calendar Section: **Mathematics**, **Arts and Science Co-op**

SPECIALIST (CO-OPERATIVE) PROGRAM IN MEDICINAL AND BIOLOGICAL CHEMISTRY (SCIENCE) - SCSPE1995C

Academic Program Supervisor of Studies: S. Dalili sdalili@utsc.utoronto.ca
Co-op Program Coordinator: coopsuccess.utsc@utoronto.ca

The Specialist (Co-op) Program in Biological Chemistry 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 Biological Chemistry upon graduation.
In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term and Course requirements.

Enrolment Requirements
The minimum qualifications for entry are 3.5 credits, including BIOA01H3, BIOA02H3, CHMA10H3, [CHMA11H3 or CHMA12H3], [MATA29H3 or MATA30H3], [MATA35H3 or MATA36H3], and [PHYA10H3 or PHYA11H3], plus a cumulative GPA 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.

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.

Academic Program Requirements
Students must complete the program requirements as described in the Specialist Program in Medicinal and Biological Chemistry.

Co-op Work Term Requirements
Students must satisfactorily complete three 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 Biological Chemistry and have completed at least 7.0 credits, achieve a cumulative GPA of 2.5 or higher, and complete COPB50H3 and COPB51H3. It is strongly recommended that CHMB16H3 and BIOB12H3 be completed prior to the first work term.

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: COPC05H3 (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 (COPC05H3) 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 Co-operative Programs section and the Arts and Science Co-op section in the UTSC *Calendar*.

Calendar Section: Chemistry, Arts and Science Co-op

SPECIALIST (CO-OPERATIVE) PROGRAM IN MENTAL HEALTH STUDIES (SCIENCE) - SCSPE1160N

Academic Program Advisor: psychundergrad.utsc@utoronto.ca
Co-op Program Coordinator: coopsuccess.utsc@utoronto.ca

The Specialist (Co-op) Program 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.
In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op

Work Term and Course requirements.

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.) a cumulative GPA of at least 2.75, and
(e.) either: (1) a final grade of 75% or higher in both PSYA01H3 and PSYA02H3, or (2) a final grade of 64% or higher in both PSYA01H3 and PSYA02H3, and a final grade of 72% or higher in [PSYB07H3 or equivalent] and PSYB70H3.

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.
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 Program in Mental Health Studies who have completed 10.0 credits or more, are not eligible to transfer to the Specialist Co-op Program in Psychology or vice-versa.

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.

Academic 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 credit must be at the D-level:

1. Introduction to Psychology (1.0 credit)
PSYA01H3 Introduction to Biological and Cognitive Psychology
PSYA02H3 Introduction to Clinical, Developmental, Personality and Social Psychology

2. Laboratory Methods (2.0 credits)
PSYB70H3 Methods in Psychological Science
PSYC37H3 Psychological Assessment
PSYC70H3 Advanced Research Methods Laboratory
PSYC73H3 Clinical Neuropsychology Laboratory

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

4. PSYC02H3 Scientific Communication in Psychology (0.5 credit)

5. PSYC85H3 History of Psychology (0.5 credit)

6. Personality and Clinical Psychology (1.0 credit):
PSYB30H3 Introduction to Personality
PSYB32H3 Introduction to Clinical Psychology

7. PSYB55H3 Introduction to Cognitive Neuroscience (0.5 credit)

8. Psychosocial and Psychobiological Breadth (2.5 credits)
Students are required to take 1.5 credits from one group and 1.0 credit from the other group:

Psycho-Social Grouping
PSYB38H3/(PSYB45H3) Introduction to Behaviour Modification
PSYC15H3 Foundations in Community Psychology
PSYC17H3 Meeting Minds: The Psychology of Interpersonal Interactions
PSYC18H3 The Psychology of Emotion
PSYC30H3/(PSYC35H3) Advanced Personality Psychology
PSYC34H3 Happiness and Meaning
PSYC36H3 Psychotherapy
PSYC39H3 Psychology and the Law

Psycho-Biological Grouping
PSYB64H3 Introduction to Behavioural Neuroscience

PSYC31H3 Neuropsychological Assessment
(PSYC33H3) Neuropsychological Rehabilitation
PSYC38H3 Adult Psychopathology
PSYC62H3 Drugs and the Brain

9. Seminars in Psychology at the D-level (1.0 credit):
All PSY D-level courses are considered "seminars," with the exception of PSYD98Y3. Student must take 1.0 credit of seminars in Psychology at the D-level, of which 0.5 credit must come from the PSY D30-series:
PSYD30H3 Current topics in Personality Psychology
PSYD31H3 Cultural-Clinical Psychology
PSYD32H3 Personality Disorders
PSYD33H3 Current Topics in Clinical Psychology
PSYD35H3 Clinical Psychopharmacology
PSYD37H3 Social Context of Mental Health and Illness
PSYD39H3 Cognitive Behavioural Therapy

10. An additional credit in Psychology at the B-level or higher (0.5 credit)

11. 2.0 credits from the following courses:
BIOC70H3 An Introduction to Bias in the Sciences
HLTA91H3 A Health Campus for Students: Prioritizing Mental Health
HLTB40H3 Health Policy and Health Systems
HLTB41H3 Introduction to the Social Determinants of Mental Health
HLTB42H3 Perspectives of Culture, Illness and Healing
HLTB50H3 Introduction to Health Humanities
HLTC22H3 Health, Aging, and the Life Cycle
HLTC23H3 Issues in Child Health and Development
HLTC42H3 Emerging Health Issues and Policy Needs
HLTC49H3 Indigenous Health
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
PHLC07H3 Death and Dying
PHLC10H3 Topics in Bioethics
SOCB22H3 Sociology of Gender
SOCB49H3 Sociology of Family
SOCB50H3 Deviance and Normality I
SOCC49H3 Indigenous Health

Co-op Program 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 Mental Health Studies and have completed at least 7.0 credits, achieve a cumulative GPA of 2.5 or higher, and complete COPB50H3 and COPB51H3. It is strongly recommended that PSYB07H3, PSYB32H3, PSYB55H3, and PSYB70H3 be completed before the first work term, and, PSYC02H3, [PSYC08H3 or PSYC09H3], and PSYC70H3 be completed before the second work term.

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 Co-operative Programs section and the Arts and Science Co-op section in the UTSC *Calendar*.

Calendar Section: Psychology, Arts and Science Co-op

SPECIALIST (CO-OPERATIVE) PROGRAM IN MOLECULAR BIOLOGY AND BIOTECHNOLOGY (SCIENCE) - SCSPE1203C

Academic Program Supervisor/Advisor: molecular-biology-biotechnology@utsc.utoronto.ca
Co-op Program Coordinator: coopsuccess.utsc@utoronto.ca

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

The co-op option of the Molecular Biology and Biotechnology program complements and punctuates academic course work with full-time work terms in research laboratories, government, health care, or in public or private industry. These work terms help students define and refine their career and/or professional school goals. For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see the Co-operative Programs section and the Arts and Science Co-op section in the UTSC *Calendar*.

Note: This program was formerly known as the Specialist Co-operative in Cell and Molecular Biology (BSc).

Enrolment Requirements
Students apply to the Specialist Program in Molecular Biology and Biotechnology 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.

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
The program requires students to complete a total of 14.5 credits.

First Year
1. 1.0 Credit of Introductory Biology Courses
BIOA01H3 Life on Earth: Unifying Principles
BIOA02H3 Life on Earth: Form, Function and Interactions

2. 1.0 Credit of Introductory Chemistry Courses

CHMA10H3 Introductory Chemistry I: Structure and Bonding
[CHMA11H3 Introductory Chemistry I: Reactions and Mechanisms or CHMA12H3 Advanced General Chemistry]

3. 1.0 Credit in Mathematics
Choose from:
[MATA29H3 Calculus I for the Life Sciences or MATA30H3 Calculus I for Physical Sciences]
and
[MATA35H3 Calculus II for Biological Sciences or MATA36H3 Calculus II for Physical Sciences]

4. 1.0 Credit in Physics
[PHYA10H3 Physics I for the Physical Sciences or PHYA11H3 Physics I for the Life Sciences]
[PHYA21H3 Physics II for the Physical Sciences or PHYA22H3 Physics II for the Life Sciences]

5. 0.5 Credit in Statistics
Choose from:
STAB22H3 Statistics I (this course could also be taken in the second year)
PSYB07H3 Data Analysis in Psychology (this course could also be taken in the second year)

Second Year
6. 3.0 Credits of Biology Core Courses
BIOB10H3 Cell Biology
BIOB11H3 Molecular Aspects of Cellular and Genetic Processes
BIOB34H3 Animal Physiology
BIOB38H3 Plants and Society
BIOB50H3 Ecology
BIOB51H3 Evolutionary Biology
BIOB90H3 Integrative Research Poster Project (CR/NCR 0.0 credit)*
***Note**: Completion of BIOB90H3 is a graduation requirement for students in this program. Concurrent enrolment in at least one of the BIO B-level courses listed above is required for enrolment in BIOB90H3. Please see BIOB90H3 in the Calendar for important information.

7. 0.5 Credit of Biology Core Labs
BIOB12H3 Cell and Molecular Biology Laboratory

8. 1.0 Credit of Organic Chemistry Courses
CHMB41H3 Organic Chemistry I
CHMB42H3 Organic Chemistry II

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

Third Year
9. 3.5 Credits of Biology C-level Courses
BIOC12H3 Biochemistry I: Proteins and Enzymes
BIOC13H3 Biochemistry II: Bioenergetics and Metabolism
BIOC15H3 Genetics
BIOC17H3 Microbiology
BIOC20H3 Principles of Virology
BIOC23H3 Practical Approaches to Biochemistry
BIOC39H3 Immunology (can be completed in third or fourth year)

10. 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)

Third/Fourth Year
11. 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
BIOC35H3 Principles of Parasitology
BIOC40H3 Plant Physiology

BIOC70H3 An Introduction to Bias in the Sciences
BIOD37H3 Biology of Plant Stress
BIOC90H3 Integrative Multimedia Documentary Project (CR/NCR 0.0 credit)*
*Note: Completion of BIOC90H3 is a graduation requirement for students in this program. Concurrent enrolment in one of the participating BIO C-level courses is required for enrolment in BIOC90H3. Please see BIOC90H3 in the Calendar for important information.

Fourth Year
12. 0.5 Credit in Advanced Molecular Techniques
BIOD21H3 Advanced Molecular Biology Laboratory

13. 0.5 Credit of D-level Research-Oriented "Cell & Molecular" Course Work
Choose from:
BIOD12H3 Protein Homeostasis
BIOD13H3 Herbology: The Science Behind Medicinal Plants
BIOD15H3 Mechanisms of Gene Regulation in Health and Disease
BIOD17H3 Seminars in Cellular Microbiology
BIOD19H3 Epigenetics in Health and Disease
BIOD20H3 Special Topics in Virology
BIOD22H3 Molecular Biology of the Stress Response
BIOD23H3 Special Topics in Cell Biology
BIOD24H3 Human Stem Cell Biology and Regenerative Medicine
BIOD25H3 Genomics
BIOD26H3 Fungal Biology and Pathogenesis
BIOD27H3 Vertebrate 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.'

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 Molecular Biology and Biotechnology and have completed at least 7.0 credits, achieve a cumulative GPA of 2.5 or higher, and complete COPB50H3 and COPB51H3. Completion of BIOB10H3, BIOB11H3, BIOB12H3, CHMB41H3 and CHMB42H3 are strongly recommended prior to second work term.

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 Co-operative Programs section and the Arts and Science Co-op section in the UTSC *Calendar*.

Calendar Section: [Biological Sciences](#), [Arts and Science Co-op](#)

SPECIALIST (CO-OPERATIVE) PROGRAM IN NEUROSCIENCE - Cellular/Molecular Stream (SCIENCE) - SCSPE1272C

Academic Program Advisor: psychundergrad.utsc@utoronto.ca
Co-op Program Coordinator: coopsuccess.utsc@utoronto.ca

The Specialist program in Neuroscience is a research-intensive program designed to provide students with strong breadth in the major domains of neuroscience, as well as an opportunity to intensively focus on one of three streams. The **Cellular/Molecular** stream explores the nervous system at its most fundamental level, investigating the influence of genes, signaling molecules, and cellular morphology on the development and maintenance of brain function, predominantly through the use of *in vitro* techniques (e.g., immunohistochemistry, patch clamp).

This 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 Neuroscience 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.

Enrolment in the Program is limited, and takes place in two stages.

Stage 1:
Students may apply to Stage 1 after successfully completing a minimum of 4.0 credits, including the following courses: BIOA01H3, BIOA02H3, CHMA10H3, [CHMA11H3 or CHMA12H3], PSYA01H3, and PSYA02H3. Students must have a CGPA of 2.75 or higher to be admitted to the program. Application for admission will be made to the Office of the Registrar through ACORN, during the Limited Program application periods. When applying, note that the Subject POSt code for Co-op Stage 1 is **SCSPE1072C**. For more information on applying to limited enrolment programs, please visit the Office of the Registrar website.

Stage 2:
To complete the program, students must choose one of the three available streams. Students who have successfully met the enrolment requirements of their chosen stream will be admitted to the Specialist Neuroscience Stage 2 category. Application for admission to a Stage 2 stream will be made to the Office of the Registrar through ACORN, during the Limited Program application periods.

Before applying to their chosen stream, students must:

1. Complete a minimum of 10.0 credits including all Stage 1 course requirements, [MATA29H3 or MATA30H3], and the Neuroscience Foundations courses which include BIOB10H3, NROB60H3, NROB61H3, [PSYB07H3 or STAB22H3], PSYB55H3, PSYB70H3;

2. Complete 1.0 credit in Stream Foundations courses from the following list*:
BIOB11H3 Molecular Aspects of Cellular and Genetic Processes
CSCA20H3 Introduction to Programming
CHMB41H3 Organic Chemistry I
CHMB42H3 Organic Chemistry II
MATA23H3 Linear Algebra
[PHYA10H3 Physics I for the Physical Sciences or PHYA11H3 Physics I for the Life Sciences]
PSYB51H3 Introduction to Perception
PSYC08H3 Advanced Data Analysis in Psychology
PSYC09H3 Applied Multiple Regression in Psychology

*Notes:
(i) students are advised to exercise caution when selecting these courses since some can be applied to all three streams (BIOB11H3, CHMB41H3, PSYB51H3, PSYC08H3), but others can be applied to only one or two streams;
(ii) the Cognitive stream does not include a component called "Stream-specific electives"; students interested in this stream should select from the following: MATA23H3, BIOB11H3, CHMB41H3, PSYB51H3, [PSYC08H3 or PSYC09H3].

3. Have achieved 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.

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.

Academic Program Requirements
This program requires students to complete 6.5 credits in core courses that are common to all streams. Students will complete a further 7.0 credits, specific to the Cellular/Molecular stream, for a total of 13.5 credits.

CORE (6.5 credits)

1. Scientific Foundations (3.5 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 or CHMA12H3 Advanced General Chemistry]
[MATA29H3 Calculus I for the Life Sciences or MATA30H3 Calculus I for Physical Sciences]
PSYA01H3 Introduction to Biological and Cognitive Psychology
PSYA02H3 Introduction to Clinical, Developmental, Personality and Social Psychology

2. Neuroscience Foundations (3.0 credits):
BIOB10H3 Cell Biology
NROB60H3 Neuroanatomy Laboratory
NROB61H3 Neurophysiology
PSYB55H3 Introduction to Cognitive Neuroscience
[PSYB07H3 Data Analysis in Psychology or STAB22H3 Statistics I]
PSYB70H3 Methods in Psychological Science

CELLULAR/MOLECULAR STREAM (7.0 credits)

3. Quantitative Logic and Reasoning (1.0 credit):
PSYC08H3 Advanced Data Analysis in Psychology
and one of the following:
CSCA20H3 Introduction to Programming
[PHYA10H3 Physics I for the Physical Sciences or PHYA11H3 Physics I for the Life Sciences]

4. Advanced Foundations (2.5 credits):
BIOB11H3 Molecular Aspects of Cellular and Genetic Processes
BIOB12H3 Cell and Molecular Biology Laboratory
CHMB41H3 Organic Chemistry I
NROC36H3 Molecular Neuroscience
NROC69H3 Synaptic Organization & Physiology of the Brain

5. Stream-specific electives (1.0 credit):
BIOC12H3 Biochemistry I: Proteins & Enzymes
BIOC13H3 Biochemistry II: Bioenergetics & Metabolism
BIOC14H3 Genes, Environment and Behaviour
CHMB42H3 Organic Chemistry II
NROC34H3 Neuroethology
NROC61H3 Learning and Motivation
NROC64H3 Sensorimotor Systems
PSYC62H3 Drugs and the Brain

6. Breadth in Neuroscience (1.0 credit):
NROC34H3 Neuroethology*
NROC61H3 Learning and Motivation*
NROC64H3 Sensorimotor Systems*
PSYB51H3 Introduction to Perception
PSYC51H3 Cognitive Neuroscience of Vision
PSYC52H3 Cognitive Neuroscience of Attention
PSYC53H3 Cognitive Neuroscience of Memory
PSYC54H3 Auditory Cognitive Neuroscience
PSYC57H3 Cognitive Neuroscience of Decision Making

PSYC59H3 Cognitive Neuroscience of Language
only if not used to complete component 5 of the requirements

7. Laboratory Course (0.5 credit):
NROC60H3 Cellular Neuroscience Laboratory (recommended)
NROC63H3 Behavioural Neuroscience Laboratory
NROC90H3 Supervised Study in Neuroscience
NROC93H3 Supervised Study in Neuroscience

8. Capstone Courses (1.0 credit):
BIOD06H3 Advanced Topics in Neural Basis of Motor Control
BIOD07H3 Advanced Topics and Methods in Neural Circuit Analysis
BIOD19H3 Epigenetics in Health and Disease
BIOD65H3 Pathologies of the Nervous System
NROD08H3/BIOD08H3 Theoretical Neuroscience
NROD60H3 Current Topics in Neuroscience
NROD61H3 Emotional Learning Circuits
NROD66H3 Drug Addiction
NROD67H3 Neuroscience of Aging
NROD98Y3 Thesis in Neuroscience*
PSYD66H3 Current Topics in Human Brain & Behaviour
Note: only 0.5 credit of NROD98Y3 can be counted towards the Capstone course requirement

Co-op Program 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 Neuroscience, and have completed at least 7.0 credits, achieve a cumulative GPA of 2.5 or higher, and complete COPB50H3 and COPB51H3. It is recommended that PSYB07H3, PSYB70H3, NROB60H3, at least one of [BIOB10H3, BIOB11H3], and at least one of [NROB61H3, PSYB55H3] be completed before the first work term. Any of these courses that are not completed prior to the first work term are recommended to be completed before the second work term. The following additional courses are recommended to be completed before the second work term for the Cellular/Molecular stream: BIOB12H3, CHMB41H3, and CHMB42H3.

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 Co-operative Programs section and the Arts and Science Co-op section in the UTSC *Calendar*.

Calendar Section: Neuroscience, Arts and Science Co-op

SPECIALIST (CO-OPERATIVE) PROGRAM IN NEUROSCIENCE - Cognitive Stream (SCIENCE) - SCSPE1172C

Academic Program Advisor: psychundergrad.utsc@utoronto.ca
Co-op Program Coordinator: coopsuccess.utsc@utoronto.ca

The Specialist program in Neuroscience is a research-intensive program designed to provide students with strong breadth in the major domains of neuroscience, as well as an opportunity to intensively focus on one of three streams. The **Cognitive** stream focuses on understanding the neural basis of human cognition (e.g., language, memory, attention, decision-making) predominantly through the use of patient neuropsychology and neuroimaging techniques (e.g., magnetic resonance imaging (MRI), electroencephalography (EEG)).

This 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 Neuroscience 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.

Enrolment in the Program is limited, and takes place in two stages.

Stage 1:
Students may apply to Stage 1 after successfully completing a minimum of 4.0 credits, including the following courses: BIOA01H3, BIOA02H3, CHMA10H3, [CHMA11H3 or CHMA12H3], PSYA01H3, and PSYA02H3. Students must have a CGPA of 2.75 or higher to be admitted to the program. Application for admission will be made to the Office of the Registrar through ACORN, during the Limited Program application periods. When applying, note that the Subject POSt code for Co-op Stage 1 is **SCSPE1072C**. For more information on applying to limited enrolment programs, please visit the Office of the Registrar website.

Stage 2:
To complete the program, students must choose one of the three available streams. Students who have successfully met the enrolment requirements of their chosen stream will be admitted to the Specialist Neuroscience Stage 2 category. Application for admission to a Stage 2 stream will be made to the Office of the Registrar through ACORN, during the Limited Program application periods.

Before applying to their chosen stream, students must:

1. Complete a minimum of 10.0 credits including all Stage 1 course requirements, [MATA29H3 or MATA30H3], and the Neuroscience Foundations courses which include BIOB10H3, NROB60H3, NROB61H3, [PSYB07H3 or STAB22H3], PSYB55H3, PSYB70H3;

2. Complete 1.0 credit in Stream Foundations courses from the following list*:
BIOB11H3 Molecular Aspects of Cellular and Genetic Processes
CSCA20H3 Introduction to Programming
CHMB41H3 Organic Chemistry I
CHMB42H3 Organic Chemistry II
MATA23H3 Linear Algebra
[PHYA10H3 Physics I for the Physical Sciences or PHYA11H3 Physics I for the Life Sciences]
PSYB51H3 Introduction to Perception
PSYC08H3 Advanced Data Analysis in Psychology
PSYC09H3 Applied Multiple Regression in Psychology

***Notes:**
(i) students are advised to exercise caution when selecting these courses since some can be applied to all three streams (BIOB11H3, CHMB41H3, PSYB51H3, PSYC08H3), but others can be applied to only one or two streams;
(ii) the Cognitive stream does not include a component called "Stream-specific electives"; students interested in this stream should select from the following: MATA23H3, BIOB11H3, CHMB41H3, PSYB51H3, [PSYC08H3 or PSYC09H3].

3. Have achieved 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.

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.

Academic Program Requirements
This program requires students to complete 6.5 credits in core courses that are common to all streams. Students will complete a further 7.0 credits, specific to the Cognitive stream, for a total of 13.5 credits.

CORE (6.5 credits)

1. Scientific Foundations (3.5 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 or CHMA12H3 Advanced General Chemistry]
[MATA29H3 Calculus I for the Life Sciences or MATA30H3 Calculus I for Physical Sciences]
PSYA01H3 Introduction to Biological and Cognitive Psychology
PSYA02H3 Introduction to Clinical, Developmental, Personality and Social Psychology

2. Neuroscience Foundations (3.0 credits):
BIOB10H3 Cell Biology
NROB60H3 Neuroanatomy Laboratory
NROB61H3 Neurophysiology
PSYB55H3 Introduction to Cognitive Neuroscience
[PSYB07H3 Data Analysis in Psychology or STAB22H3 Statistics I]
PSYB70H3 Methods in Psychological Science

COGNITIVE STREAM (7.0 credits)

3. Quantitative and Methodological Skills (1.5 credits):
PSYC02H3 Scientific Communication in Psychology
PSYC70H3 Advanced Research Methods Laboratory
[PSYC08H3 Advanced Data Analysis in Psychology or PSYC09H3 Applied Multiple Regression in Psychology]

4. Advanced Programming (1.5 credits):
MATA23H3 Linear Algebra
[[CSCA08H3 Introduction to Computer Science I and CSCA48H3 Introduction to Computer Science II]* or [PSYB03H3 Introduction to Computers in Psychological Research and PSYC03H3 Introduction to Computers in Psychological Research: Advanced Topics]]
Note: students are strongly advised to choose the [PSYB03H3 and PSYC03H3] pairing.

5. Advanced Foundations (1.5 credits):
PSYB51H3 Introduction to Perception
and two of the following:
PSYC51H3 Cognitive Neuroscience of Vision
PSYC52H3 Cognitive Neuroscience of Attention
PSYC53H3 Cognitive Neuroscience of Memory
PSYC54H3 Auditory Cognitive Neuroscience
PSYC57H3 Cognitive Neuroscience of Decision Making
PSYC59H3 Cognitive Neuroscience of Language

6. Breadth in Neuroscience (1.0 credit):
(at least 0.5 credit must be a C-level NRO course)
BIOB11H3 Molecular Aspects of Cellular and Genetic Processes
CHMB41H3 Organic Chemistry I
NROC34H3 Neuroethology
NROC36H3 Molecular Neuroscience
NROC61H3 Learning and Motivation
NROC64H3 Sensorimotor Systems
NROC69H3 Synaptic Organization & Physiology of the Brain

7. Laboratory Course (0.5 credit):
NROC90H3 Supervised Study in Neuroscience
NROC93H3 Supervised Study in Neuroscience
PSYC75H3 Cognitive Psychology Laboratory
PSYC76H3 Brain Imaging Laboratory

8. Capstone Courses (1.0 credit):
PSYD17H3 Social Neuroscience
PSYD50H3 Current Topics in Memory and Cognition

PSYD51H3 Current Topics in Perception
PSYD54H3 Current Topics in Visual Recognition
PSYD55H3 Functional Magnetic Resonance Imaging Laboratory
PSYD62H3 Neuroscience of Pleasure and Reward
PSYD66H3 Current Topics in Human Brain & Behaviour
NROD98Y3 Thesis in Neuroscience*
*Note: only 0.5 credit of NROD98Y3 can be counted towards the Capstone course requirement

Co-op Program 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 Neuroscience, and have completed at least 7.0 credits, achieve a cumulative GPA of 2.5 or higher, and complete COPB50H3 and COPB51H3. It is recommended that PSYB07H3, PSYB70H3, NROB60H3, at least one of [BIOB10H3, BIOB11H3], and at least one of [NROB61H3, PSYB55H3] be completed before the first work term. Any of these courses that are not completed prior to the first work term are recommended to be completed before the second work term. The following additional courses are recommended to be completed before the second work term for the Cognitive stream: PSYC02H3, [PSYC08H3 or PSYC09H3], and PSYC70H3.

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 Co-operative Programs section and the Arts and Science Co-op section in the UTSC *Calendar*.

Calendar Section: **Neuroscience, Arts and Science Co-op**

SPECIALIST (CO-OPERATIVE) PROGRAM IN NEUROSCIENCE - Systems/Behavioural Stream (SCIENCE) - SCSPE1372C

Academic Program Advisor: psychundergrad.utsc@utoronto.ca
Co-op Program Coordinator: coopsuccess.utsc@utoronto.ca

The Specialist Program in Neuroscience is a research-intensive program designed to provide students with strong breadth in the major domains of neuroscience, as well as an opportunity to intensively focus on one of three streams. The **Systems/Behavioural** stream examines the neural mechanisms underlying behaviour and how brain circuits work together to analyze external stimuli, internal biological states, and past experiences in order to coordinate appropriate responses, predominantly through the use of *in vivo* approaches in behaving subjects (e.g., optogenetics, chemogenetics).

This 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 Neuroscience 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.

Enrolment in the Program is limited, and takes place in two stages.

Stage 1:
Students may apply to Stage 1 after successfully completing a minimum of 4.0 credits, including the following courses: BIOA01H3, BIOA02H3, CHMA10H3, [CHMA11H3 or CHMA12H3], PSYA01H3, and PSYA02H3. Students must have a CGPA of 2.75 or higher to be admitted to the program. Application for admission will be made to the Office of the Registrar through ACORN, during the Limited Program application periods. When applying, note that the Subject POSt code for Co-op Stage 1 is **SCSPE1072C**. For more information on applying to limited enrolment programs, please visit the Office of the Registrar website.

Stage 2:
To complete the program, students must choose one of the three available streams. Students who have successfully met the enrolment requirements of their chosen stream will be admitted to the Specialist Neuroscience Stage 2 category. Application for admission to a Stage 2 stream will be made to the Office of the Registrar through ACORN, during the Limited Program application periods.

Before applying to their chosen stream, students must:

1. Complete a minimum of 10.0 credits including all Stage 1 course requirements, [MATA29H3 or MATA30H3], and the Neuroscience Foundations courses which include BIOB10H3, NROB60H3, NROB61H3, [PSYB07H3 or STAB22H3], PSYB55H3, PSYB70H3;

2. Complete 1.0 credit in Stream Foundations courses from the following list*:
BIOB11H3 Molecular Aspects of Cellular and Genetic Processes
CSCA20H3 Introduction to Programming
CHMB41H3 Organic Chemistry I
CHMB42H3 Organic Chemistry II
MATA23H3 Linear Algebra
[PHYA10H3 Physics I for the Physical Sciences or PHYA11H3 Physics I for the Life Sciences]
PSYB51H3 Introduction to Perception
PSYC08H3 Advanced Data Analysis in Psychology
PSYC09H3 Applied Multiple Regression in Psychology

*Notes:
(i) students are advised to exercise caution when selecting these courses since some can be applied to all three streams (BIOB11H3, CHMB41H3, PSYB51H3, PSYC08H3), but others can be applied to only one or two streams;
(ii) the Cognitive stream does not include a component called "Stream-specific electives"; students interested in this stream should select from the following: MATA23H3, BIOB11H3, CHMB41H3, PSYB51H3, [PSYC08H3 or PSYC09H3].

3. Have achieved 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.

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.

Academic Program Requirements
This program requires students to complete 6.5 credits in core courses that are common to all streams. Students will complete a further 7.0 credits, specific to the Systems/Behavioural stream, for a total of 13.5 credits.

CORE (6.5 credits)

1. Scientific Foundations (3.5 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 or CHMA12H3 Advanced General Chemistry]
[MATA29H3 Calculus I for the Life Sciences or MATA30H3 Calculus I for Physical Sciences]
PSYA01H3 Introduction to Biological and Cognitive Psychology
PSYA02H3 Introduction to Clinical, Developmental, Personality and Social Psychology

2. Neuroscience Foundations (3.0 credits):
BIOB10H3 Cell Biology
NROB60H3 Neuroanatomy Laboratory
NROB61H3 Neurophysiology
PSYB55H3 Introduction to Cognitive Neuroscience
[PSYB07H3 Data Analysis in Psychology or STAB22H3 Statistics I]
PSYB70H3 Methods in Psychological Science

SYSTEMS/BEHAVIOURAL STREAM (7.0 credits)

3. Quantitative Logic and Reasoning (1.0 credit):
PSYC08H3 Advanced Data Analysis in Psychology
and one of the following:
CSCA20H3 Introduction to Programming
[PHYA10H3 Physics I for the Physical Sciences or PHYA11H3 Physics I for the Life Sciences]

4. Advanced Foundations (2.5 credits):
BIOB11H3 Molecular Aspects of Cellular and Genetic Processes
BIOB12H3 Cell and Molecular Biology Laboratory
NROC61H3 Learning and Motivation
and two of the following:
NROC34H3 Neuroethology
NROC64H3 Sensorimotor Systems
NROC69H3 Synaptic Organization & Physiology of the Brain

5. Stream-specific electives (1.0 credit):
CHMB41H3 Organic Chemistry I
and one of the following:
BIOC14H3 Genes, Environment and Behaviour
CHMB42H3 Organic Chemistry II
NROC36H3 Molecular Neuroscience
PSYC62H3 Drugs and the Brain

6. Breadth in Neuroscience (1.0 credit):
NROC36H3 Molecular Neuroscience*
NROC69H3 Synaptic Organization & Physiology of the Brain*
PSYB51H3 Introduction to Perception
PSYC51H3 Cognitive Neuroscience of Vision
PSYC52H3 Cognitive Neuroscience of Attention
PSYC53H3 Cognitive Neuroscience of Memory
PSYC54H3 Auditory Cognitive Neuroscience
PSYC57H3 Cognitive Neuroscience of Decision Making
PSYC59H3 Cognitive Neuroscience of Language
only if not used to complete components 4 or 5 of the requirements

7. Laboratory Course (0.5 credit):
NROC60H3 Cellular Neuroscience Laboratory
NROC63H3 Behavioural Neuroscience Laboratory (recommended)
NROC90H3 Supervised Study in Neuroscience
NROC93H3 Supervised Study in Neuroscience
PSYC74H3 Human Movement Laboratory

8. Capstone Courses (1.0 credit):
BIOD06H3 Advanced Topics in Neural Basis of Motor Control
BIOD07H3 Advanced Topics and Methods in Neural Circuit Analysis
BIOD19H3 Epigenetics in Health and Disease
BIOD45H3 Animal Communication
BIOD65H3 Pathologies of the Nervous System
NROD08H3/BIOD08H3 Theoretical Neuroscience
NROD60H3 Current Topics in Neuroscience
NROD61H3 Emotional Learning Circuits
NROD66H3 Drug Addiction
NROD67H3 Neuroscience of Aging
NROD98Y3 Thesis in Neuroscience*

PSYD66H3 Current Topics in Human Brain & Behaviour
Note: only 0.5 credit of NROD98Y3 can be counted towards the Capstone course requirement

Co-op Program 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 Neuroscience, and have completed at least 7.0 credits, achieve a cumulative GPA of 2.5 or higher, and complete COPB50H3 and COPB51H3. It is recommended that PSYB07H3, PSYB70H3, NROB60H3, at least one of [BIOB10H3, BIOB11H3], and at least one of [NROB61H3, PSYB55H3] be completed before the first work term. Any of these courses that are not completed prior to the first work term are recommended to be completed before the second work term. The following additional courses are recommended to be completed before the second work term for the Systems/Behavioural stream: BIOB12H3, CHMB41H3, and CHMB42H3.

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 Co-operative Programs section and the Arts and Science Co-op section in the UTSC *Calendar*.

Calendar Section: Neuroscience, Arts and Science Co-op

SPECIALIST (CO-OPERATIVE) PROGRAM IN PHILOSOPHY (ARTS) - SCSPE0231C

For more information, please contact:

Academic Program Advisor: jason.ferreira@utoronto.ca

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

The Specialist (Co-op) Program in Philosophy 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 Philosophy 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 two Co-op work terms.

Enrolment Requirements

The minimum qualifications for entry are 4.0 credits, plus a cumulative GPA 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.

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 Philosophy.

Co-op Work Term Requirements
Students must satisfactorily complete two Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Specialist (Co-op) Program in Philosophy and have completed at least 9.0 credits, including one of PHLB50H3, PHLB55H3 or MATC09H3.
In addition to their academic program requirements, Co-op students complete up to four Co-op specific courses. 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 cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and 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 Preparation Course Requirements:

1. COPB50H3/(COPD01H3) – Foundations for Success in Arts & Science Co-op
- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in Fall, Winter, or Summer of their first year at UTSC.
- Current UTSC students entering Co-op in April/May will complete this course in the Summer semester.
- Current UTSC students entering Co-op in July/August will complete this course in the Winter semester.

2. COPB51H3/(COPD03H3) – Preparing to Compete for your Work Term
- This course will be completed eight months in advance of the first scheduled work term.

3. COPB52H3/(COPD11H3) – Managing your Job Search and Transition to the Workplace
- This course will be completed four months in advance of the first work scheduled work term.

4. COPC98H3/(COPD12H3) – Integrating Your Work Term Experience Part I
- This course will be completed four months in advance of the second scheduled work term.

5. COPC99H3/(COPD13H3) – Integrating Your Work Term Experience Part II
- This course will be completed four months in advance of the third scheduled work term (for programs that require the completion of 3 work terms and/or four months in advance of any additional work terms that have been approved by the Arts and Science Co-op Office.

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, in turn, requires that students take courses during at least one Summer semester.

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

Calendar Section: Philosophy, Arts and Science Co-op

SPECIALIST (CO-OPERATIVE) PROGRAM IN PSYCHOLINGUISTICS (SCIENCE) - SCSPEPLINC

Academic Program Advisor: dls-ua@utsc.utoronto.ca

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

The Specialist (Co-op) Program in Psycholinguistics 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 Psycholinguistics upon graduation.
In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term and Course requirements.

Note: Effective Fall 2024, the Specialist in Psycholinguistics will be designated as a Science program. Students who are enrolled in the program prior to Fall 2024 may consult with the Academic Program Advisor for advice.

Enrolment Requirements
The minimum qualifications for entry are 4.0 credits, including LINA01H3 and LINA02H3, plus a cumulative GPA 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.

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.

Academic Program Requirements
Students must complete the program requirements as described in the Specialist Program in Psycholinguistics.

Co-op Work Term Requirements
Students must satisfactorily complete two Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Specialist (Co-op) Program in Psycholinguistics and have completed at least 7.0 credits, achieve a cumulative GPA of 2.5 or higher, and complete COPB50H3 and COPB51H3. It is strongly recommended that LINB06H3 and LINB09H3 be completed before the first work term.

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 Co-operative Programs section and the Arts and Science Co-op section in the UTSC *Calendar*.

Calendar Section: **Linguistics, Arts and Science Co-op**

SPECIALIST (CO-OPERATIVE) PROGRAM IN PSYCHOLOGY (SCIENCE) - SCSPE1160A

Academic Program Advisor: psychundergrad.utsc@utoronto.ca
Co-op Program Coordinator: coopsuccess.utsc@utoronto.ca

The Specialist (Co-op) Program 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.
In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term and Course requirements.

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.) a cumulative GPA of at least 2.75, and
(e.) either (1) a final grade of 75% or higher in both PSYA01H3 and PSYA02H3, or (2) a final grade of 64% or higher in both PSYA01H3 and PSYA02H3, and a final grade of 72% or higher in [PSYB07H3 or equivalent] and PSYB70H3.

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.
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 Program in Mental Health Studies who have completed 10.0 credits or more, are not eligible to transfer to the Specialist Co-op Program in Psychology or vice-versa.

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.

Academic Program Requirements
The program requires students to complete a total 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 Introduction to Biological and Cognitive Psychology
PSYA02H3 Introduction to Clinical, Developmental, Personality and Social Psychology

2. Laboratory Methods (1.5 credits)
PSYB70H3 Methods in Psychological Science
PSYC70H3 Advanced Research Methods Laboratory
and 0.5 credit from among the following:
PSYC71H3 Social Psychology Laboratory
PSYC72H3 Developmental Psychology Laboratory
PSYC74H3 Human Movement Laboratory
PSYC75H3 Cognitive Psychology Laboratory
PSYC76H3 Brain Imaging Laboratory

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

4. PSYC02H3 Scientific Communication in Psychology (0.5 credit)

5. PSYC85H3 History of Psychology (0.5 credit)

6. Breadth in Psychology 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. Seminars in Psychology at the D-level (1.0 credit)
All PSY D-level courses are considered "seminars", with the exception of PSYD98Y3. Students must take 0.5 credit from each grouping below:
(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)

8. Additional credits in Psychology at the B-level or higher (2.0 credits)
Of the 2.0 credits, at least 1.0 credit must be at the C-level. Supervised study [PSYC90H3 or PSYC93H3] *or* thesis [PSYD98Y3] courses may be used to fulfill a maximum of 0.5 credit.

Co-op Program 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 Psychology and have completed at least 7.0 credits, achieve a cumulative GPA of 2.5 or higher, and complete COPB50H3 and COPB51H3. It is recommended that PSYB07H3, PSYB70H3, and 1.0 additional PSY B-level credits be completed before the first work term, and PSYC02H3, [PSYC08H3 or PSYC09H3], and PSYC70H3 be completed before the second work term.

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 Co-operative Programs section and the Arts and Science Co-op section in the UTSC *Calendar*.

Calendar Section: Psychology, Arts and Science Co-op

SPECIALIST (CO-OPERATIVE) PROGRAM IN STATISTICS - Quantitative Finance Stream (SCIENCE) - SCSPE2299T

Academic Program Advisor: S. Calanza susan.calanza@utoronto.ca
Co-op Program Coordinator: C. Dixon coopsuccess.utsc@utoronto.ca

The Specialist (Co-operative) Program in Statistics 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 Statistics upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term and Course requirements.

Enrolment Requirements

Enrolment in the Specialist (Co-operative) Program in Statistics is limited.

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. Students must have completed the required A-level CSC and MAT courses, and achieved the required grades, described in the Enrolment Requirements for the Specialist in Statistics. In addition, they must also have received a CGPA of at least 2.5 across all attempted courses.

Prospective Co-op Students:
Prospective students (i.e., those not yet admitted to a Co-op Degree POSt) must meet the enrolment requirements noted above and have a CGPA of at least 2.75 across all attempted courses.

Prospective students must request the Co-op program on ACORN. Request deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar each year. Failure to make the program request on ACORN will result in the student's application not being considered.

Academic Program Requirements
Students must complete the program requirements as described in the Specialist Program in Statistics.

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 Statistics and have completed at least 7.0 credits, achieve a cumulative GPA of 2.5 or higher, and complete COPB50H3 and COPB51H3.

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: COPC01H3 (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 (COPC01H3) 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 Co-operative Programs section and the Arts and Science Co-op section in the UTSC *Calendar*.

Calendar Section: Statistics, Arts and Science Co-op

SPECIALIST (CO-OPERATIVE) PROGRAM IN STATISTICS - Statistical

Machine Learning and Data Science Stream (SCIENCE) - SCSPE2289Y

Academic Program Advisor: S. Calanza susan.calanza@utoronto.ca
Co-op Program Coordinator: C. Dixon coopsuccess.utsc@utoronto.ca

The Specialist (Co-operative) Program in Statistics 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 Statistics upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term and Course requirements.

Enrolment Requirements

Enrolment in the Specialist (Co-operative) Program in Statistics is limited.

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. Students must have completed the required A-level CSC and MAT courses, and achieved the required grades, described in the Enrolment Requirements for the Specialist in Statistics. In addition, they must also have received a CGPA of at least 2.5 across all attempted courses.

Prospective Co-op Students:
Prospective students (i.e., those not yet admitted to a Co-op Degree POSt) must meet the enrolment requirements noted above and have a CGPA of at least 2.75 across all attempted courses.

Prospective students must request the Co-op program on ACORN. Request deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar each year. Failure to make the program request on ACORN will result in the student's application not being considered.

Academic Program Requirements
Students must complete the program requirements as described in the Specialist Program in Statistics.

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 Statistics and have completed at least 7.0 credits, achieve a cumulative GPA of 2.5 or higher, and complete COPB50H3 and COPB51H3.

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: COPC01H3 (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 (COPC01H3) 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 Co-operative Programs section and the Arts and Science Co-op section in the UTSC *Calendar*.

Calendar Section: Statistics, Arts and Science Co-op

SPECIALIST (CO-OPERATIVE) PROGRAM IN STATISTICS - Statistical Science Stream (SCIENCE) - SCSPE2279Y

Academic Program Advisor: S. Calanza susan.calanza@utoronto.ca
Co-op Program Coordinator: C. Dixon coopsuccess.utsc@utoronto.ca

The Specialist (Co-operative) Program in Statistics 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 Statistics upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term and Course requirements.

Enrolment Requirements

Enrolment in the Specialist (Co-operative) Program in Statistics is limited.

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. Students must have completed the required A-level CSC and MAT courses, and achieved the required grades, described in the Enrolment Requirements for the Specialist in Statistics. In addition, they must also have received a CGPA of at least 2.5 across all attempted courses.

Prospective Co-op Students:
Prospective students (i.e., those not yet admitted to a Co-op Degree POSt) must meet the enrolment requirements noted above and have a CGPA of at least 2.75 across all attempted courses.

Prospective students must request the Co-op program on ACORN. Request deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar each year. Failure to make the program request on ACORN will result in the student's application not being considered.

Academic Program Requirements
Students must complete the program requirements as described in the Specialist Program in Statistics.

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 Statistics and have completed at least 7.0 credits, achieve a cumulative GPA of 2.5 or higher, and complete COPB50H3 and COPB51H3.

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: COPC01H3 (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 (COPC01H3) 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 Co-operative Programs section and the Arts and Science Co-op section in the UTSC *Calendar*.

Calendar Section: Statistics, Arts and Science Co-op

SPECIALIST (CO-OPERATIVE) PROGRAM IN STRATEGIC MANAGEMENT - Entrepreneurship Stream (BACHELOR OF BUSINESS ADMINISTRATION) - SCSPE2432R

Academic Director: S. Ahmed E-mail: mgmtss@utsc.utoronto.ca
Assistant Director: P. Brown E-mail: mgmtcoop@utsc.utoronto.ca

The Specialist (Co-operative) Program in Strategic Management is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in public and private enterprises. Depending on their needs and abilities, students work in areas such as accounting, public administration, auditing, communications, economic development, finance, human resources/personnel, information systems, marketing, policy, strategic planning and entrepreneurship.

At its most fundamental level, effective strategic management is about understanding and successfully managing strategic interactions with other firms and individuals. Strategic interactions take place whenever our fortunes depend not only on our own actions, but also on the actions of our rivals (and vice versa). In these instances, our optimal actions – and those of our partners and competitors - are inextricably connected. How should we think about these interactions and formulate an action plan?

The Specialist Program in Strategic Management - which includes a Management Strategy Stream and an Entrepreneurship Stream - will give students the skills to address this essential question. Integrating tools from economics and other management disciplines, students will gain a profound understanding of business and corporate strategy and their sub-disciplines, and/or entrepreneurship.

Overall, as a Strategic Management specialist students will develop an ability to identify, simplify, and analyze highly complex business problems, to strategize implementable solutions, and to articulate the key elements of their strategic reasoning in a simple, compelling and engaging way to a non-expert audience. Indeed, the strategic mindset that students will gain from this specialty will help them successfully navigate the stormy waters of business, whether they plan a career as a management consultant, economic consultant, manager in private-sector, public sector and non-profit organizations, investment banker, or entrepreneur. 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.

Enrolment Requirements

Enrolment in this Program is limited.

1. Students applying directly from high school are admitted on the basis of academic performance. They must have completed Grade 12 English and Grade 12 Calculus.

Course Guidelines for Students Admitted to B.B.A. Co-op Programs Directly from High School
Students must complete the following courses in their first year of study: MGEA02H3, MGEA06H3, MATA34H3, MGAB01H3, MGAB02H3, MGHA12H3, MGMA01H3 and MGTA38H3.

2. Students requesting admission after the first year must request ONLY ONE Management Co-op Subject POSt on ACORN. Students may apply at the end of the Winter semester and/or at the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request.

The minimum Cumulative Grade Point Average (CGPA) for Program admission is calculated for each application period, and

is based on University of Toronto courses only. Normally, the minimum CGPA requirement for Co-op Programs will be higher than for non Co-op Programs. Decisions are made when all grades have been received.

Students must have completed the following courses (or their equivalent): MGEA02H3, MGEA06H3, and MATA34H3. However, [[MATA29H3 or MATA30H3 or MATA31H3 or (MATA32H3)] and [(MATA33H3) or MATA35H3 or MATA36H3 or MATA37H3]] may also be used to satisfy the calculus requirement. None of the courses listed above (or their equivalent) can be designated as CR/NCR. Of the total credits that students have completed when they apply, at least 4.0 credits must be in University of Toronto courses that have been graded (i.e., not designated as CR/NCR). Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be considered for admission to the Program.

Applicants must submit a resume and covering letter to the Management Co-op Office during the limited Subject POSt request period outlined on the Office of the Registrar's website. For information on what to include in your resume and covering letter, visit the Management Co-op website. An interview may also be required.

CGPA Requirement to Remain in the Program
Students whose CGPA falls below 2.5 will be placed on probation; Students whose CGPA falls below 2.3 will be removed from Co-op, and students whose CGPA falls below 2.0 will be removed from all BBA programs. A student may request reinstatement to the non Co-op Specialist Program only if they complete at least 2.0 credits (none of which can be designated as CR/NCR) in the following session and raise their CGPA to at least 2.0. This opportunity will be provided only once.

Most internal admissions to Management Co-op will be done at the end of the Winter semester. Based on availability, a small number of students who apply at the end of the Summer semester may be admitted.

Program Requirements
Students must complete the program requirements as described in the Specialist Program in Strategic Management.

Co-op Work Term Requirements
All Co-op students must take MGTA38H3 prior to the commencement of their first work term. Students are advised to consult regularly with the Academic Director, or the Program Advisor if they have questions regarding course selection and scheduling. It is, however, the student's individual responsibility to ensure that they have completed the correct courses to make them eligible for each work term and that they have correctly completed program and degree requirements for graduation.

Students who apply after the first year and are successful in receiving a June offer to any Management Co-op program will be expected to complete a Co-op Advancing Your Career Exploration (AYCE) course beginning in the third week of June, and continuing throughout the summer.

To compete for a work term a student must maintain a 2.5 CGPA, and must have completed:

1. For the first work term:
a) 7.0 credits, including: MGEA02H3, MGEA06H3, MGAB01H3, MGAB02H3, MGHA12H3, MGMA01H3, MGTA38H3, and MATA34H3. However, [[MATA29H3 or MAT30H3 or MATA31H3 or (MATA32H3)] and [(MATA33H3) or MATA35H3 or MATA36H3 or MATA37H3]] may also be used to satisfy the calculus requirement.
b) The Management Co-op Advancing Your Career Exploration (AYCE): [COPB11H3 and COPB12H3] or COPB10Y3.

2. For the second work term: 9.0 credits.

3. For the third work term: 11.0 credits.

For information on fees and status in Co-op programs, and certification of completion of Co-op programs, please see the Co-operative Programs section or the Management Co-op section in the UTSC *Calendar*.

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