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

TO:	UTM Academic Affairs Committee
SPONSOR:	Professor William A. Gough, Interim Vice-Principal, Academic & Dean
CONTACT INFO:	vpdean.utm@utoronto.ca
PRESENTER:	Professor Bryan Stewart, Vice-Dean, Academic Programs
CONTACT INFO:	vdacademicprograms.utm@utoronto.ca
DATE:	April 21, 2026, for April 28, 2026
AGENDA ITEM:	3

ITEM IDENTIFICATION:

Major Modification: Repoint UTM Specialist and Major programs in Computer Science, and Specialist in Information Security, from the Honours Bachelor of Science to the Bachelor of Computer Science Undergraduate Degree.

JURISDICTIONAL INFORMATION:

Under section 5.6 of its terms of reference, the Academic Affairs Committee is responsible for major and minor modifications to existing degree programs.

GOVERNANCE PATH:

1. **UTM Academic Affairs Committee [For Approval] (April 28, 2026)**

PREVIOUS ACTION TAKEN:

No previous action taken.

HIGHLIGHTS:

The University of Toronto Mississauga (UTM), in coordination with the Faculty of Arts & Science and the University of Toronto Scarborough, proposes to repoint three existing UTM computer science programs from the Honours Bachelor of Science (HBSc) to the new Bachelor of Computer Science (BCS) degree, effective September 1, 2027. The proposed repointed programs are the Computer Science Specialist, Information Security Specialist, and the Computer Science Major. The repointing reflects the significant evolution and expanded scope of the computer science discipline and more accurately represents the depth and breadth of training students receive.

There will be no changes to the existing enrolment plans for the repointed programs. No changes are proposed for admissions, program entry, program objectives, learning outcomes, courses, assessment, or mode of delivery. Implementation of these proposed changes will be supported using existing departmental, divisional and institutional resources, staffing and infrastructure.

The changes will be reflected in the 2027–2028 UTM Academic Calendar, and students will be eligible for graduation with the new program designation beginning in June 2028.

FINANCIAL IMPLICATIONS:

There are no financial implications of the proposed change.

RECOMMENDATION:

Be It Resolved:

THAT Subject to Executive Committee Confirmation of the New Degree in Bachelor of Computer Science,

THAT the Specialist and Major programs in Computer Science, and the Specialist in Information Security, be repointed from the Honours Bachelor of Science degree to the Bachelor of Computer Science undergraduate degree, as detailed in the proposal dated April 7, 2026, effective September 1, 2027.

DOCUMENTATION PROVIDED:

Major Modification Proposal: Significant Modifications to Existing Undergraduate or Graduate Programs, Department of Mathematical & Computational Sciences, April 7, 2026

University of Toronto
Major Modification Proposal: Significant Modifications to Existing Undergraduate and Graduate Programs

Program being modified: Please specify what program and which components of that are being modified; e.g., Specialist in History; Master of Environmental Science	Three programs are being “re-pointed” to a new degree, Bachelor of Computer Science: • Computer Science Specialist • Computer Science Major • Information Security Specialist
Program of Study Code(s):	• Computer Science Specialist ERSPE1688 • Computer Science Major ERMAJ1688 • Information Security Specialist ERSPE1038
Proposed major modification:	The identified programs, which currently lead to the Honours Bachelor of Science degree, are being repointed to the new degree Bachelor of Computer Science (BCS). NOTE: this change is pending approval of a proposal being brought forward to University governance in the 2025-26 governance year, from the Faculty of Arts & Science, UTM, and the University of Toronto Scarborough, to introduce the BCS as a degree that is conferred by the University of Toronto.
Department/unit (if applicable):	Department of Mathematical & Computational Science
Faculty/division:	University of Toronto Mississauga
Dean’s office contact:	Bryan Stewart, Vice-Dean Academic Programs
Proponent:	Ilia Binder, Chair, Department of Mathematical and Computational Science
Version date: Please update as you edit this proposal.	April 7, 2026

Framework for UTQAP Major Modifications

The University of Toronto Quality Assurance Process (UTQAP) supports a structured approach for creating, reflecting on, assessing and developing plans to change and improve academic programs and units in the context of institutional and divisional commitments and priorities.

The University of Toronto (U of T), in its Statement of Institutional Purpose (1992), articulates its mission as a commitment "to being an internationally significant research university, with undergraduate, graduate, and professional programs of excellent

quality." Thus “quality assurance through assessment of new program proposals and review of academic programs and units in which they reside is a priority for the University…:”

> The quality of the scholarship of the faculty, and the degree to which that scholarship is brought to bear in teaching are the foundations of academic excellence. More generally, all of the factors that contribute to collegial and scholarly life — academic and administrative complement, research and scholarly activity, infrastructure, governance, etc. — bear on the quality of academic programs and the broad educational experience of students. (Policy for Approval and Review of Academic Programs and Units (2010))

The University’s approach to quality assurance is built on two primary indicators of academic excellence: the quality of the scholarship and research of faculty; and the success with which that scholarship and research is brought to bear on the achievement of Degree Level Expectations. These indicators are assessed by determining how our scholarship, research and programs compare to those of our international peer institutions and how well our programs meet their Degree Level Expectations.

The University of Toronto embraces academic change as a critical part of maintaining and enhancing programs of outstanding quality through a process of continuous improvement. Proposals for major modifications are vehicles of academic change.

Major Modification Proposal

A major modification to an existing program is a restructuring of a program, a merger of or the creation of new elements within existing programs, or a renewal of a program in order to keep it current with its academic discipline or improve student academic experience.

This template should be used to bring forward all proposals for major modifications to **existing** undergraduate and graduate programs for governance approval under the University of Toronto Quality Assurance Process (UTQAP). In cases where it is unclear whether a proposed change in a program is a new program, a major modification, or a minor modification, a determination will be made by the Vice-Provost, Academic Programs in consultation with the divisional Dean and the academic unit.

This template aligns with UTQAP requirements and will help to ensure that all evaluation criteria established by the Quality Council are addressed in bringing forward a proposal. Divisions may have additional requirements that should be integrated into the proposal. Examples of major modifications are provided in UTQAP 3.1. See the VPAP website for more information on major modifications.

Development and Approval Steps	**Date (e.g., of final sign off, governance meeting, inclusion in reports)**
Dean's office sign-off	January 22, 2026
VPAP sign-off	February 20, 2026
Unit-level approval (if required)	January 19, 2026
Faculty/divisional governance	April 28, 2026 UTM Academic Affairs Committee
Faculty/division submits final proposal to VPAP	April 29, 2026
Included in Major Modification Report to AP&P	May 12, 2026
Included in Major Modification Report to Quality Council	July 2026

1 Executive Summary

Please provide a brief summary of the change(s) being proposed.

University of Toronto Mississauga (UTM), the Faculty of Arts & Science (A&S), and the University of Toronto Scarborough (UTSC) have brought forward a separate proposal, in this governance year, to introduce the Bachelor of Computer Science (BCS) degree as a new four-year Honours undergraduate degree, beginning in September 2027, to be conferred by the University of Toronto. Pending approval of the new degree by University governance, we will be re-pointing three existing programs at the University of Toronto Mississauga to the new BCS. These three UTM programs, which currently point to Honours Bachelor of Science (HBSc), are:

- Computer Science Specialist ERSPE1688
- Computer Science Major ERMAJ1688
- Information Security Specialist ERSPE1038

The repointing will take effect on September 1, 2027. The changes to the programs will first be captured in the 2027-2028 UTM Academic Calendar, in which; the programs will be indicated as Bachelor of Computer Science (BCS) programs, rather than “(Science)” programs, pointing to the HBSc.
As discussed in the proposal to introduce the new degree to U of T, the BCS reflects how the discipline of computer science has greatly expanded over the last 60 years to include new areas of study including machine learning, quantum computing, cybersecurity, health informatics, data privacy, and ethical concerns of the new technologies. Given the growth and evolution of computer science, the Honours Bachelor of Science degree (HBSc) no longer communicates accurately the depth and breadth of computer science training that students at UTM receive. Students now acquire deep technical knowledge and tremendous breadth within computer science that they can leverage across industries and contribute meaningfully to the creation of technological innovation. Repointing the three identified programs in this proposal to the BCS degree responds to evolution of the discipline of computer science, recognizes expertise in the discipline, and keeps UTM and U of T at the leading edge of the discipline. The identified programs share key learning outcomes in the area of computer science, including recognizing goals of computing systems, describing concepts and mechanisms designed to achieve these goals, and demonstrating how these concepts are realized in a computing system.

No other changes are being made to the programs as a result of this proposal. This includes no changes being made to the programs’ learning objectives, program level-learning outcomes (PLOs), structure/design, admissions criteria, enrolment or completion requirements. No changes are being made to the programs, courses, structure, objectives, , methods of assessment, program mode of delivery, experiential learning opportunities, faculty supporting the program, staff support, infrastructure including academic home, space or equipment, or resources required for ongoing academic support (e.g., library, academic advising, etc.).

There will be no changes to the existing enrolment plans of UTM or the identified programs as a result of this proposal. Admission caps, which define the flow of students into all four programs

being re-pointed to the BCS, will not change. Hence, the anticipated number of students that will be awarded the new degree corresponds to current trends in total program enrolment and graduation numbers.

There will be no changes to resources required to support the programs, as they will be unchanged by this proposal. The implementation and startup phases of the changed will be resourced by existing staff in the Department of Mathematical & Computational Sciences, the Office of the Registrar, and the Office of the Vice-Principal, Academic and Dean.

2 Effective Date

Please indicate when students may first be enrolled in the changed program or new option. If creating something new within a program, please state when the new option will first be reviewed and through which unit.

The programs are to be repointed effective September 1, 2027.The repointing of the identified programs will first be captured in the 2027-2028 UTM Academic Calendar (anticipated publication date is May 2027). The first date that students completing the identified programs in this proposal will be eligible to graduate with the Bachelor of Computer Science degree is June 2028.

There will be a transition period for in-progress students who were admitted to UTM and the identified programs before September 1, 2027. During the transition period, which students in any of the programs being re-pointed to the new degree will be able to choose to graduate with either the Honours Bachelor of Science (HBSc) or the new BCS degree. However, students admitted to UTM for September 2027 onward who enrol in any of the identified Specialist programs will default to earning the new degree (BCS). Students who combine one Major in Computer Science, with one Major or two Minors in the Arts or Sciences may be eligible to receive either an Honours Bachelor of Arts (HBA) or HBSc rather than the BCS, in accordance with the BCS Degree Requirements (see Appendix D for a full explanation of program combinations and associated degree options). In such cases, students will be awarded an BCS unless notification is given to the Office of the Registrar.

Detailed transition plans are outlined in Section 6 (Impact of Change).

3 Current Calendar Copy with Changes Tracked or Highlighted

Changes to current calendar copy are shown in blue text.

The programs' admissions criteria, enrolment requirements and completion requirements are not changing as a result of this proposal.

Currently, each of the three programs are indicated as "Science" programs in the UTM Academic Calendar, in this format:

- Computer Science Major (Science) - ERMAJ1688
- Computer Science Specialist (Science) - ERSPE1688
- Information Security Specialist (Science) - ERSPE1038

Following approval of this proposal, effective 2027-28, the programs will be listed in this format in the UTM Academic Calendar

- Computer Science - Major (BCS) - ERMAJ1688
- Computer Science - Specialist (BCS) - ERSPE1688
- Information Security - Specialist (BCS) - ERSPE1038

Full Calendar entries for the three programs, including any editorial changes, are included in Appendix A.

4 Academic Rationale and Program Objectives

4.1 Program Objectives

a) State the program's objectives.

There are no changes to programs' objectives for any of the identified programs as a result of this proposal.

4.2 Academic Rationale

In a **single** response, please describe the academic rationale for the proposed changes, referring to the calendar copy above, and considering the changes relative to the criteria below.

b) Discuss consistency of the program's objectives with the institution's mission and U of T's/the division's/unit's academic plans, priorities and commitments, including consistency with any implementation plans developed following a previous review.
c) Appropriateness of degree or diploma nomenclature given the program's objectives

d) Evidence that the following have been substantially considered in the context of developing the changes to the program and its associated resources:
    1. Universal design principles and/or the potential need to provide mental or physical disability-related accommodations, reflecting the University's Statement of Commitment Regarding Persons with Disabilities.
    1. Support for student well-being and sense of community in the learning and teaching environment, reflecting the work of the Expert Panel on Undergraduate Student Educational Experience and the commitment to establishing a Culture of Caring and Excellence as recommended by the Presidential and Provostial Task Force on Student Mental Health.
    2. Opportunities for removing barriers to access and increasing retention rates for Indigenous students; for integrating Indigenous content into the curriculum in consultation with Indigenous curriculum developers; and for addressing any discipline-specific calls to action, reflecting the commitments made in Answering the Call: Wecheehetowin: Final Report of the Steering Committee for the University of Toronto Response to the Truth and Reconciliation Commission of Canada.
    3. Opportunities for removing barriers to access and increasing retention rates for Black students; for promoting intersectional Black flourishing, fostering inclusive excellence and enabling mutuality in teaching and learning, reflecting the commitments made in the Scarborough Charter and consistent with the recommendations of the Anti-Black Racism Task Force Final Report.
    4. Opportunities for fostering an equitable, diverse, and inclusive teaching and learning environment, reflecting the values articulated in existing institutional documents such as the Statement on Equity, Diversity, and Excellence, the Antisemitism Working Group Final Report, the aforementioned reports, and future institutional reports related to equity, diversity and inclusion.
e) If appropriate, please discuss unique curriculum or program innovations, creative components, significant high impact practices related to the proposed change.
f) Provide a statement on the way in which the proposed major modification will improve the student experience (required).

In a separate but related proposal, University of Toronto Mississauga (UTM), the Faculty of Arts & Science (A&S), and the University of Toronto Scarborough (UTSC) are proposing to introduce the Bachelor of Computer Science (BCS) degree as a new four-year honours undergraduate degree that will be conferred by the University of Toronto.

Pending approval of the proposal to introduce the BCS, and through this proposal, the Computer Science Major, Computer Science Specialist, and Information Security Specialist (i.e.,

“the three re-pointed programs”) offered by UTM, which currently point to the Honours Bachelor of Science (HBSc) are being re-pointed to the BCS.

The discipline of computer science encompasses both the theory and practice of computing, including hardware and software development, computing systems, algorithms, and artificial intelligence. It prepares students to design and analyze systems, reason about computational problems, and engage with emerging technologies. In the broadest sense, Computer Science is concerned with the study of computation and applications of computing and its development has been stimulated by collaborations across the disciplines.

While a relatively young field, Computer Science has expanded rapidly in depth and breadth over the past 60 years as both technology and applications have evolved. Early applications of computing focused on their ability to perform robust mathematical calculations and data processing (being less error-prone than humans), for example with codebreaking, physics simulations, weather forecasting, and ballistics. As technology advanced, there was an explosion of computation in both everyday lives and industry. Personal computers (and later, devices like smartphones and virtual reality) changed how people interact with computing devices, which caused the field to evolve to consider how people interact with technology, how to design efficient algorithms for everyday use, and how to design software for various forms of hardware. The creation of the Internet was also transformative in allowing new forms of communication across distances, opening new forms of commerce and entertainment, and posing new challenges (e.g., with computer systems to handle the vast volume of Internet traffic; with cybersecurity).

The history of computer science education at the University of Toronto mirrors the evolution of the field. The Arts & Science Calendar entry for Computer Science from 1971 emphasized the application of computer science to other disciplines: “computers are being used in a wide variety of areas, and students often study computing primarily in order to use computer techniques in their own specialties.” The roster of courses was small and the scope narrow, with a strong emphasis on the mathematical foundations of the field. During this time at UTM and UTSC, courses in computer science were offered by the mathematics department. UTSC offered three such courses – an introduction to computing, problem solving with computers, and programming languages and their applications. UTM also offered three courses – computer programming; programming languages and applications; and computer organization and assembly – language programming. Arts & Science had a similar roster of courses, with additional offerings in computer graphics and programming techniques for data processing.

Today, the discipline has greatly expanded to include new areas including machine learning, quantum computing, cybersecurity, health informatics, data privacy, and ethical concerns of the new technologies. The array of courses in the field of computer science reflects this seismic transformation. For example, UTM offers courses ranging from foundational building blocks, such as the theory of computation, computer organization, data structures, networks, databases and numerical methods, software design and engineering, to a wide array of courses on topics like programming on the web, Artificial Intelligence, machine learning, parallel programming, computational complexity, neural networks and deep learning, reinforcement learning, image understanding, cryptography, computer forensics, security, operating systems design, algorithm design, video game design, robotics, and computing education.

Currently, the degree that recognizes program students' expertise in this field is the Honours Bachelor of Science. However, given the growth and evolution of the discipline of computer science, the Honours Bachelor of Science no longer communicates accurately the depth and breadth of computer science training students receive.

The Bachelor of Computer Science is the appropriate degree for the identified programs to point to because it signals to students, graduate schools, employers, and other stakeholders that its recipients have acquired a great depth of education in Computer Science that is far beyond its nascent curricula, which focused on "learning to code" as it applied to advancing research in other disciplines. Students now acquire deep technical knowledge and tremendous breadth within computer science that they can leverage across industries and contribute meaningfully to the creation of technological innovation. Repointing the three identified programs in this proposal to the BCS degree, therefore, responds to evolution of the discipline of computer science, recognizes expertise in the discipline, and keeps UTM and U of T at the leading edge of the discipline.

The three programs identified in this proposal that are being repointed to the BCS degree all provide sufficient breadth and depth in computing. As such, the Minor in Computer Science is not included in the proposal since it does not provide the same levels of depth and breadth of learning.

The repointed programs all result in students being able to:

- Recognize goals of computing systems, describe concepts and mechanisms designed to achieve these goals, and demonstrate how these concepts are realized in a computing system
- Evaluate a computing system or component of a system using appropriate tools
- Create a technical solution for a well-defined problem, and make arguments for the correctness of the solution
- Identify problems that cannot be solved (or cannot be solved with current technology)
- Demonstrate accountability and responsibility to a team working within a computing context

The programs all require foundations in calculus and computer science, and multiple courses in computer science (or equivalent) at the 200- and 300-level.

5 Program Design

5.1 Admission Requirements

Please describe any proposed changes to admission requirements by considering the changes tracked in the calendar copy relative to the following:

g) Discuss the appropriateness of the program's admission requirements given the program's objectives and program-level learning outcomes.

h) Sufficient explanation of alternative requirements, if applicable, for admission into a graduate, second-entry or undergraduate program (e.g., minimum grade point
i) average, additional languages or portfolios, and how the program recognizes
j) prior work or learning experience).

There are no changes to the admissions criteria or enrolment requirements for any of the programs identified in this proposal that are being repointed to the new degree. The admissions criteria and enrolment requirements of the identified programs that are currently in place for leading to the Honours Bachelor of Science will be the same once the programs are re-pointed to the BCS degree.

5.2 Program Structure and Requirements

Addressing the prompts below in **one** response, please discuss any proposed changes to program requirements, including any changes to milestone assessments, by considering the changes relative to the following criteria:

5.3 All Programs

k) With reference to the change proposed, discuss the appropriateness of the program's structure and the requirements to meet its objectives and program-level learning outcomes, including the structure and requirements of any identified streams (undergraduate), fields or concentrations (graduate).
l) Appropriateness of the program's structure, requirements and program-level learning outcomes in meeting the institution's applicable undergraduate or graduate Degree Level Expectations.
m) Please state the mode of delivery and if it is changing, indicate the appropriateness and effectiveness of the proposed mode(s) of delivery (i.e., means or medium used in delivering a program; e.g., lecture format, distance, online, synchronous/asynchronous, problem-based, compressed part-time, flexible-time, multi-campus, inter-institutional collaboration or other non-standard forms of delivery) to facilitate students' successful completion of the program-level learning outcomes.
    1. If changing the mode of delivery of the program to online for all or a significant portion of a program that was previously delivered in-person, please discuss the following:
        i. Maintenance of and/or changes to the program objectives and program-level learning outcomes
        ii. Adequacy of the technological platform and tools

iii. Sufficiency of support services and training for teaching staff
iv. Sufficiency and type of support for students in the new learning environment
v. Access

n) Ways in which the proposed curriculum addresses the current state of the discipline or area of study and is appropriate for the level of the program.
o) If applicable, details on any new experiential learning that is part of the program, including confirmed and interested partners, duration of experiential learning component in a program, and anticipated number of placements.

There are no changes to the program design/structure, program-level learning outcomes, completion requirements, experiential learning opportunities, or program mode of delivery for any of the programs being repointed to the new degree.

The degree-level expectations (DLEs) for new BCS degree are identical to those for the HBSc degree at UTM, and there is no change to the alignment of the PLOs and program design with the DLEs.

Please refer to Appendix B for the UTM BCS's degree-level expectations. The Degree Requirements for the BCS at UTM are provided in Appendix D.

5.4 Impact of the Change

a) Assessment of the impact the proposed modification will have on the program's students and/or other units or divisions.

There will be no changes to the tuition or grant funding associated with the identified programs in this proposal that will be re-pointed from the Honours Bachelor of Science degree to the Bachelor of Computer Science degree.

UTM Divisional Transition Plan and Options for In-Progress and Incoming Students

- Incoming students in Fall 2027 and later will not require transition support, as they will enter UTM knowing which POSts lead to the BCS degree. This information will be communicated during the recruitment and admission periods, as well as in the UTM Academic Calendar which is published annually in April/May.
- The repointed programs will first be available on ACORN for enrolment requests during the 2028 program enrolment period, beginning in March 2028. Students

enrolled in a combination of programs, one of which leads to the BCS, may have the option to choose to graduate instead with the HBA or HBSc, depending upon the combination of programs in which they are enrolled; to request to do so, students would contact the UTM Registrar's Office. As an example, a student enrolled in the Computer Science Major and the Philosophy Major could choose to graduate instead with the HBA; a student enrolled in the Computer Science Major and the Mathematics Major could choose to graduate instead with the HBSc. The program combinations and degree options are outlined in the BCS Degree requirements, which are provided in Appendix D.

- In-progress students, who are already in POSts that will be repointed to the BCS will receive communications about the new degree and will be moved to the new degree type as the default by the Office of the Registrar. They will be provided with instructions on how to opt out of the BCS in favour of the HBSc/HBA they were originally pursuing, should they wish to do so.
- Students admitted to UTM in Fall 2026 and earlier who are not yet in a POSt, or who enter POSts that lead to the BCS degree, will also receive communications with instructions on how to opt out of the BCS in favour of the HBSc/HBA, since they were admitted to UTM with the intention of pursuing an HBSc/HBA. These students will be identified by the Office of the Registrar through existing CHOP (Change of POSt) processes and graduation checks, ensuring all affected students are aware of their option to choose between the HBSc/HBA and the BCS during the transition period.
- Information will be posted on the Office of the Registrar website (including the graduation checklist) to inform students that the BCS will be the default degree for those graduating in 2028 and beyond, and that only students admitted to UTM in Fall 2026 and earlier may opt to graduate with an HBSc/HBA instead of a BCS by contacting the Office of the Registrar.
- Students that have completed one of the identified programs in this proposal, and have already graduated and been conferred with a degree, will not be permitted to request to be conferred with the new degree.

UTM Communications Plan

- An update for information will be made to the 2026–2027 UTM Academic Calendar website in late Summer, 2026, to indicate that the three re-pointed programs will lead to the BCS effective September 1, 2027. This timing will be coordinated with similar updates for the 2026-2027 UTSC and FAS Academic Calendars, in order to support Fall 2027 admissions and recruitment processes.

- The 2027-2028 UTM Academic Calendar will include the new degree, and degree requirements. The Degree Requirements for the BCS at UTM is provided in Appendix D.
- UTM will ensure that academic advising and recruitment teams understand the new degree and related transition plans and are prepared to support both new and current students.
- Communications staff in the Office of the Registrar will work with the Department of Mathematical and Computational Science (MCS) to communicate with students currently in Major and Specialist programs, as well as those admitted but not yet in a POSt. This will include website updates, targeted emails, and social media communications.
- The Student Recruitment and Admissions team will collaborate with MCS and UTM Communications to ensure that future student websites, printed materials (such as the Viewbook), and social channels are updated, and that information is shared appropriately through recruitment events (presentations, open houses, school visits, etc.).

UTM Resources

- No additional UTM resources will be required for implementation. All processes and communications will be carried out using existing staff and resources.

Department Communications Plan

The transition to the Bachelor of Computer Science (BCS) degree will be communicated to affected populations through a coordinated, multi-year plan. Communication will begin as soon as this policy is approved and will be continued for 4 years past policy approval.

Approved Policy Notification to the Department (Winter 2026)
Upon approval, the MCS Department will update its program webpages to clearly describe the new degree, eligibility rules, and options students will have at graduation. They will communicate that in-progress students requesting graduation prior to the effective start date (September 1, 2027) of this proposal will be conferred with either the HBSc or the HBA, depending on the combination of programs they complete and the existing HBA/HBSc degree requirements. Students who are admitted to UTM and the identified programs prior to the effective start date of this proposal will have a choice regarding whether to be conferred with the HBA/HBSc or the BCS. A targeted email will be sent to all students currently enrolled in repointed Computer Science or Information Security programs to inform them of this update.

Broader communication to current UTM students will be sent to inform them about the introduction of the new BCS degree. Students who have been admitted to UTM with the intention of completing one of the programs in the proposal, but who have not yet been admitted to a repointed subject POSt prior to the effective start date of the changes will be informed through this communication channel. If admitted to a repointed subject POSt after the effective

start date, after program and degree completion, they would be conferred with the BCS degree, unless they qualify for and request a switch to the HBSc or HBA degree at the time of their graduation request.

Information for Prospective Students (mid-2026 onward)
Beginning in mid-2026, the Office of the Registrar will update applicant information resources by mid-2026 so that applicants to the University in 2026-27 will be informed of the new degree requirements. These resources will include the UTM Viewbook and printed recruitment materials.

Continuing Notifications for Graduating Students (Winter 2027-Summer 2031)
From Winter 2027 through Summer 2031, the MCS Department will email students with 4th year status immediately prior to the graduation application period to ensure students making degree decisions are fully informed. These communications will include a link to the webpage describing the new degree. While students eligible to make a choice may graduate after 2031, we expect that the new degree will be well-established and the default choice, though students may still opt for the HBSc if they choose.

Program Enrolments:

There will be no changes to the existing enrolment plans of UTM or the Department of Mathematical & Computational Sciences as a result of this proposal. Admission caps, which define the flow of students into all of the identified programs that will be repointed to the new degree will not change. Hence, the anticipated number of students that will be awarded the new degree can be approximated based on current trends in total program enrolment and graduation numbers, which are illustrated below, accounting for some variation from students currently enrolled in repointed programs and request to be conferred with the HBSc or HBA degree.

Enrolment History in programs that will be re-pointed to the new degree

Table 1 shows enrolments in the three programs that will be repointed. In total, it is anticipated that roughly 1,000 students per year will be registered in programs pointing to the BCS degree.

Table 1. A&S Enrolment (Source: A&S Supplemental Dashboard, Nov. 1, 2024 count date).

Program Type	Program Title and Code	Fall 2018	Fall 2019	Fall 2020	Fall 2021	Fall 2022	Fall 2023	Fall 2024
Specialist	ERSPE1038 - SPE INFORMATION SECURITY	58	68	68	62	69	61	53
	ERSPE1688 - SPE COMPUTER SCIENCE	326	417	411	501	532	600	648

Major	ERMAJ1688 - MAJ COMPUTER SCIENCE	235	264	264	308	316	327	331
Grand Total		**619**	**749**	**743**	**871**	**917**	**988**	**1032**

Table 2 shows counts of UTM students graduating with majors or specialists in the repointed programs, demonstrating that approximately 250 students per year will be graduating from UTM having completed one of the repointed programs.

Table 2. Number of UTM Students Graduating by POSt (including spring and fall for each year), 2022-2024.

	2022	2023	2024
MAJ	92	86	108
SPE	120	124	148

Resources Required for Implementation and Communications Steps

As noted above, the Department, the Office of the Dean and the UTM Office of the Registrar will work together to update the central “future students” website, viewbooks, staff training, etc. In addition, UTM has a suite of communication tools and techniques to communicate the changes to students, including:

Governance

- Once the new Degree Proposal (and Major Modifications) pass through governance, update UTM Academic Calendar to reflect the changes.
- For Curriculum Management (CM) and Curriculum Publisher (CP), we will work with EASI to update Calendar sections like degree completion requirements, departmental sections, etc.

Office of the UTM Registrar

- Update to ROSI and Degree Explorer
- Partner with Student Communications to develop a holistic student communications plan for new BCS. This will include:
- Updates to UTM website
- Updates to recruitment materials such as viewbooks, brochures, prospective student/applicant emails, etc.

- Update to recruitment key messages for prospective student and applicants
- Social media plan
- Department of Mathematical and Computational Sciences
- Updates to Department website, brochures, etc.
- Email communication to all enrolled students providing links to resources about the change, followed by a town hall for students held in the fall term of each academic year

6 Resources

Please consider the proposed changes relative to the following:

6.1 Resources: All programs

Given the program's class sizes and cohorts as well as its program-level learning outcomes please discuss:

a) Participation of a sufficient number and quality of core faculty who are competent to teach and/or supervise in and achieve the goals of the program and foster the appropriate academic environment.

There are no changes to the faculty delivering the programs identified in this proposal. These programs already benefit from a stable complement of core faculty that support its class sizes, student cohorts, and program-level learning outcomes. The program is delivered by 19 faculty members (ten teaching-track and nine research-track).

The Department of Mathematical and Computational Sciences has sixteen faculty members that hold a Ph.D. in computer science or a related technical field, and the remaining three hold an M.Sc. in computer science. All faculty are research-active, publishing in recognized national and international computing research venues, and the cohort has notable strength in robotics and in computing education. This collective profile supports high-quality teaching, effective supervision, and maintenance of a modern computing curriculum. No changes are being made to the program that would necessitate a change in this faculty complement as the courses required, workload, etc. related to this program remain unchanged.

b) If applicable, discuss the role and approximate percentage of adjunct and sessional faculty/limited term appointments used in the delivery of the program and the associated plans to ensure the sustainability of the program and quality of the student experience.

No change to the faculty involved in the delivery of the program.

c) If required, provision of supervision of experiential learning opportunities.

No change to the provision or supervision of experiential learning opportunities.

d) Adequacy of the administrative unit's utilization of existing human, physical and financial resources, including implications for the impact on other existing programs at the University.

No changes to required physical facilities, administrative staff, equipment, or so on, for ongoing support of the repointed programs.

For resources that will be involved in the implementation, startup phase, and communications plan associated with repointing the three programs to the new BCS degree, see Section 6.

e) Evidence that there are adequate resources to sustain the quality of scholarship and research activities produced by students, including library support, information technology support, and laboratory access.

No changes to resources required to sustain the quality of scholarship and research activities.

f) If necessary, additional institutional or divisional resource commitments to support the program in step with its ongoing implementation.

No changes to resource commitments.

7 Consultation

Describe consultation with internal (e.g., faculty, students, cognate units, etc., as appropriate) and external stakeholders (e.g., alumni, community or professional organizations, etc., as appropriate).

The current proposal is coming forward in accompaniment to the separate proposal from Arts & Science, UTM and UTSC to create a new degree that will be conferred by the University of Toronto – Bachelor of Computer Science (BCS). The BCS proposal itself underwent a lengthy

development and consultation process which comes to bear on the current proposal, so consultations on the new degree proposal are outlined first, followed by consultations performed more specifically on the current proposal to repoint three UTM programs.

In parallel, FAS and UTSC are bringing forward major modifications to repoint their computer science and related programs to the new BCS degree to their respective divisional governance bodies for final approval on the same timeline as this proposal. Hence, the tri-campus new degree proposal and three divisional major modification proposals to repoint pertinent programs at each campus are coming forward to governance in concert.

Consultations on the new degree (BCS) proposal:

Concept and new degree proposal development - Tri-Campus working group process:

The BCS new degree proposal was developed through a consultative, tri-campus working group process. The working group was convened in spring 2024 and first met on June 30, 2024 (see Appendix C for working group terms of reference and meeting schedule.) Throughout the Fall of 2024, proponents from Computer Science departments in each division formed an academic writing group to collaborate on drafting academic rationale and need and demand. The following spring, colleagues from each division's registrarial offices convened as an administrative writing group and began joining working group meetings. By May 2025, the administrative writing group drafted divisional degree completion requirements (see Appendix A), which were discussed by the working group at their May 26 meeting. The working group convened again on September 15, 2025, and reviewed drafts of the proposal.

Early consultations with employers on new degree proposal:

While drafting the rationale for the new degree in Fall 2024, a Computer Science Working group, composed of faculty from each division’s computer science department, recommended early consultation with employers about the new degree. In December 2024, a five-question survey was developed and sent out through the Faculty of Arts & Science’s Office of Experiential Learning and Outreach Support to a list of their current and potential employers. The employers represented industry portfolios including Information Technology: Data Processing, Hosting, and Related Services; and Information Technology: Software and Computer Systems Design. 17 responses were received with nearly all the employers surveyed (16 out of 17) either supportive (9) or ambivalent (7) to the creation of the new degree.

Early consultations with students at UTM, A&S, and UTSC:

Also in Fall 2024, the Computer Science writing group oversaw an early consultation with their departments’ students. A five-question survey was developed for students currently enrolled in the Departments’ Major and Specialist programs. Between January and February 2025, all three divisions sent out the survey through their respective Departments. Student support for the new degree was overwhelmingly positive across all three divisions, as described in Section 4.

Consultations by Department of Mathematical and Computational Sciences

In November 2025, the MCS Department sent a survey to all students (a) enrolled in the CS program and (b) enrolled in CSC108, which leads to the option to enrol in a CS program at the end of the first year. The survey contained a brief summary of the proposed degree, including a note indicating that students would not be able to choose between a Sciences and Computer Science degree unless they completed at least a major pointing to another degree. The survey asked students three questions:

- Do you support the creation of a new Bachelor of Computer Science, as outlined above?
- Would you choose to graduate with the new Bachelor of Computer Science, if you were choosing between it and an Honours Bachelor of Science or Arts?
- Do you have any feedback on the proposed degree?

64 responses were received, and an overwhelming number (80%) were supportive of the proposal. The students who were not in support argued that the “Honours Bachelor of Science” was a known degree and that they either (a) did not see value in a new name or (b) were concerned that employers would see it as a more narrow, less valuable degree.

In the same timeframe, computer science faculty in the MCS Department were informed about the degree in a faculty meeting and asked to provide feedback. Faculty reception was neutral and indicated support if students were in support. A small number of faculty were vocally positive. Two faculty were not in support, citing the lack of an “Honours” prefix and a concern that this would place students at a disadvantage when applying for positions in industry.

Consultations by the UTM Dean’s Office

The Vice-Dean, Academic Programs presented updates from the new degree Working Group to two groups for information and feedback. The first was the Vice-Dean and Dean group (Sep 24, 2025), consisting of Dean, William Gough, and the Vice-Dean, Faculty, the Vice-Dean, Undergraduate, the Vice-Dean, Graduate Students and Postdoctoral Affairs, two Associate Deans, as well as the Assistant Dean and UTM Registrar. It should be noted that the UTM Registrar was also a member of the Implementation Group, composed of registrarial representatives from each campus. The updates were also presented to the Deans Advisory group (Sep 31, 2025), which additionally includes senior administrative staff from the Dean’s Office.

In these reports, the Vice-Dean, Academic Programs described the purpose of the new degree and indicated that no course or program-level changes were being introduced, and that there would be no changes to registration processes or fees. Rather, the proposal involves three UTM programs offered by the Department of Mathematical and Computational Sciences pointing to the new degree. No concerns were raised about the proposal.

Beyond the three arts and science divisions, the FAS Vice-Dean Academic Planning, along with the UTM Vice-Dean Academic Programs and UTSC Special Advisor on Academic Programming & Curriculum Development, and Chairs of the three computer science departments, held consultations with decanal representatives at the Faculty of Applied Science & Engineering (Dec 1, 2026) and the Faculty of Information (Dec 10, 2026). The Faculty of Applied Science & Engineering communicated strong support for the proposal, stating they saw the degree as a

good thing for students. The Faculty of Information appreciated the consultation and thought it was a straightforward and clear proposal. They asked if the new degree would cause any changes to the Computer Science course (CSC108H1), which is a required course for Faculty of Information students, but they were reassured that the creation of the new degree has no impact to their students' access to computer science courses. They expressed no concerns about the proposal for the new degree.

Appendix A: Calendar Entries for the Repointed Programs

Changes from current Calendar content are indicated in red strikethrough for removed text and blue highlight for replacement or new text.

Computer Science Specialist Calendar Entry

Computer Science - Specialist (~~Science~~ BCS) - ERSPE1688

Limited Enrolment — Enrolment in this program is limited to students with a minimum of 4.0 U of T credits (excluding courses with a grade of CR or transfer credits), who meet the requirements below.

Only students admitted to UTM in the Year 1 Computer Science admission category (CMP1) who meet the criteria of the Computer Science program admission guarantee will be eligible to apply to the Computer Science Specialist program.

Special Requirement: Students must complete a supplemental application to be considered for the program. Supplemental application deadlines are the same date as the POSt application deadline on ACORN. More information, including information about the supplemental application form, is available on the Department of Mathematical and Computational Sciences website here.

Notes:

1. The minimum grade required in CSC148H5 and MAT102H5 is determined annually. It is never lower than 65%. Only CSC148H5 and MAT102H5, taken at the UTM campus, will be accepted.
2. Transfer students who have completed any postsecondary studies outside of UTM (including studies at other divisions at the University of Toronto) are not eligible to pursue a Specialist and/or Major in Computer Science at U of T Mississauga.
3. Due to the limited enrolment nature of this program, students are strongly advised to develop alternate plans if they need to instead enroll in other programs.

Students admitted to UTM in Fall/Winter 2026/2027 and beyond must be in the Year 1 Computer Science admission category (CMP1) to be eligible to apply to the Computer Science Specialist.

Students in the CMP1 admissions category have guaranteed admission to the Computer Science Specialist, provided the following courses with the stated minimum grades are completed within 12 months of beginning their studies:

1. CSC110Y5 (70%)
2. CSC111H5 (77%)
3. ISP100H5
4. MAT139H5 or MAT159H5

Students in other admission categories or students in the CMP1 category who do not complete the required courses in the stipulated timeframe are not eligible to apply to the Computer Science Specialist program.

The Computer Science Specialist is a deregulated fees program and as such, tuition fees for students enrolled in this program are higher than for other regulated fee programs. Fees are charged on a program and not a per-course basis. See www.registrar.utoronto.ca/fees-payments for more information on the fee structures.

Enrolment in the UTMCIP stream of this program is limited to students who have completed 4.0 credits including:

CSC110Y5 (a final grade of at least 70%)

1. CSC111H5 (a final grade of at least 77%)
2. MAT134H5 or MAT136H5 or MAT139H5 or MAT159H5 or MAT137Y5 or MAT157Y5 or MAT233H5
3. ISP100H5

Special Requirement: Students must complete a supplemental application to be considered for the program. Supplemental application deadlines are the same date as the POSt application deadline on ACORN. More information, including information about the supplemental application form, is available on the Department of Mathematical and Computational Sciences website here.

Courses to take in Year of Study 2: Complete CSC207H5/CSC207H1/CSCB07H3 by the end of Year of Study 2 to remain eligible for the program.

Students who have achieved a cumulative GPA of at least 2.5 are encouraged to apply. Students must be in good standing with no outstanding academic integrity cases.

Completion Requirements:
12.0-13.0 credits are required.

First Year:

CSC110Y5 and CSC111H5

1. ISP100H5

2. (MAT137H5 or MAT157H5) and (MAT139H5 or MAT159H5)

Second Year:

1. CSC207H5 and CSC209H5 and CSC236H5 and CSC258H5 and CSC263H5
2. MAT223H5 or MAT240H5
3. MAT232H5 or MAT233H5 or MAT257Y5
4. STA246H5 or STA256H5 or ECO227Y5

Higher Years:

1. CSC311H5 and CSC343H5 and CSC363H5 and CSC369H5 and CSC373H5
2. CSC358H5 or CSC458H5
3. Additional 2.0 credits from any 300/400 level CSC course or GGR335H5 or GGR337H5 or GGR437H5 or LIN340H5 or LIN341H5, of which 1.0 must be at the 400 level, and no more than 1.0 credit of GGR or LIN courses may count toward this requirement.

Notes:

1. In addition to the course requirements above, students must complete an integrative learning experience. This requirement may be met by participating in the UTM Co-op Internship Program (UTMCIP)* or by completing one of the following half-courses: CSC318H5, CSC367H5, CSC375H5, CSC376H5, CSC409H5, CSC420H5, CSC427H5, CSC477H5, CSC490H5.

*Please be advised that the UTMCIP only applies to UTM Computer Science students entering Year of Study 2. For more information about the UTMCIP, please visit the Experiential and International Opportunities page of the UTM Academic Calendar.

2. Students are strongly encouraged to familiarize themselves with the 100-level calculus pre-requisites to select the correct courses.

Computer Science Major Calendar Entry

Computer Science - Major (~~Science~~ BCS) - ERMAJ1688
Limited Enrolment — Enrolment in this program is limited to students with a minimum of 4.0 U of T credits (excluding courses with a grade of CR or transfer credits), including the requirements below.

There are two pathways to entry, and a student must satisfy one.

For students admitted through the CMP1 admission category in Fall 2026 and beyond:

1. CSC110Y5 (70%)
2. CSC111H5 (77%)
3. MAT139H5 or MAT159H5
4. ISP100H5

For students admitted to UTM in Fall 2026 and beyond through any other admission category:

1. Submission of a supplemental application
2. CSC148H5 (see minimum grade note below)
3. MAT102H5 (see minimum grade note below)
4. MAT139H5 or MAT159H5
5. ISP100H5
6. A cumulative grade point average (CGPA), determined annually. It is never lower than 2.5

Special Requirement: Students must complete a supplemental application to be considered for the program. Supplemental application deadlines are the same date as the POSt application deadline on ACORN. More information, including information about the supplemental application form, is available on the Department of Mathematical and Computational Sciences website here.

Notes:

1. The minimum grade required in CSC148H5 and MAT102H5 is determined annually. It is never lower than 60%. Only CSC148H5 and MAT102H5, taken at the UTM campus, will be accepted.

2. Transfer students who have completed any postsecondary studies outside of UTM (including studies at other divisions at the University of Toronto) are not eligible to pursue a Specialist and/ or Major in Computer Science at U of T Mississauga.

3. Due to the limited enrolment nature of this program, students are strongly advised to develop alternate plans if they need to instead enroll in other programs.

The Computer Science Major is a deregulated fees program and as such, tuition fees for students enrolled in this program are higher than for other regulated fee programs. Fees are charged on a program and not a per-course basis. See www.registrar.utoronto.ca/fees-payments for more information on the fee structures.

Enrolment in the UTMCIP stream of this program is limited to students who have completed 4.0 credits. There are three admissions pathways, and students must satisfy one.

For students who were admitted to UTM in Fall 2026 and beyond through the CMP1 stream, those 4.0 credits must include:

1. CSC110Y5 (a final grade of at least 70%)
2. CSC111H5 (a final grade of at least 77%)
3. MAT139H5 or MAT159H5
4. ISP100H5

For students admitted to UTM in Fall 2026 and beyond through any other admission category, those 4.0 credits must include:

1. CSC148H5 (see minimum grade note above)
2. MAT102H5 (see minimum grade note above)
3. MAT139H5 or MAT159H5
4. ISP100H5

Special Requirement: Students must complete a supplemental application to be considered for the program. Supplemental application deadlines are the same date as the POSt application deadline on ACORN. More information, including information about the supplemental application form, is available on the Department of Mathematical and Computational Sciences website here.

Courses to take in Year of Study 2: Complete CSC207H5/CSC207H1/CSCB07H3 by the end of Year of Study 2 to remain eligible for the program.

Students who have achieved a cumulative GPA of at least 2.5 are encouraged to apply. Students must be in good standing with no outstanding academic integrity cases.

Completion Requirements:
7.5-8.5 credits are required.

First Year:

1. (CSC108H5 and MAT102H5) or CSC110Y5
2. CSC148H5 or CSC111H5
3. ISP100H5
4. (MAT137H5 or MAT157H5) and (MAT139H5 or MAT159H5)

Second Year:

1. CSC207H5 and CSC236H5
2. 1.0 credit from the following: CSC209H5 or CSC258H5 or CSC263H5
3. MAT223H5 or MAT240H5
4. STA246H5 or STA256H5 or ECO227Y5

Higher Years:

Additional 2.0 credits from any 300/400 level CSC course or GGR335H5 or GGR337H5 or GGR437H5 or LIN340H5 or LIN341H5, of which 1.0 must be at the 400 level courses and at least 0.5 credit must come from CSC369H5 or CSC311H5 or CSC338H5 or CSC347H5 or CSC376H5 or LIN340H5 or LIN341H5. No more than 0.5 credit of GGR or LIN courses may count to this requirement.

Notes:

1. In addition to the course requirements above, students must complete an integrative learning experience. This requirement may be met by participating in the UTM Co-op Internship Program (UTMCIP)* or by completing one of the following half-courses: CSC318H5, CSC367H5, CSC375H5, CSC376H5, CSC409H5, CSC420H5, CSC427H5, CSC477H5, CSC490H5.

*Please be advised that the UTMCIP only applies to UTM Computer Science students entering Year of Study 2. For more information about the UTMCIP, please visit the Experiential and International Opportunities page of the UTM Academic Calendar.

2. Students are strongly encouraged to familiarize themselves with the 100-level calculus pre-requisites to select the correct courses.

Information Security Specialist Calendar Entry

Information Security - Specialist (~~Science~~ BCS) - ERSPE1038

Enrolment Requirements:

Limited Enrolment — Enrolment in this program is limited to students with a minimum of 4.0 U of T credits (excluding courses with a grade of CR or transfer credits), who meet the requirements below.

Only students admitted to UTM in the Year 1 Computer Science admission category (CMP1) who meet the criteria of the Information Security Specialist program admission guarantee will be eligible to apply to the Information Security Specialist program.

Students admitted to UTM in Fall/Winter 2026/2027 and beyond must be in the Year 1 Computer Science admission category (CMP1) to be eligible to apply to the Information Security Specialist.

Students in the CMP1 admissions category have guaranteed admission to the Information Security Specialist, provided the following courses with the stated minimum grades are completed within 12 months of beginning their studies:

1. CSC110Y5 (70%)
2. CSC111H5 (77%)
3. MAT139H5 or MAT159H5
4. ISP100H5

Students in other admission categories or students in the CMP1 category who do not complete the required courses in the stipulated timeframe are not eligible to apply to the Information Security Specialist program.

The Information Security Specialist is a deregulated fees program and as such, tuition fees for students enrolled in this program are higher than for other regulated fee programs. Fees are charged on a program and not a per course basis. See www.registrar.utoronto.ca/fees-payments for more information on the fee structures.

Enrolment in the UTMCIP stream of this program is limited to students who have completed 4.0 credits including:

1. CSC110Y5 (a final grade of at least 70%)
2. CSC111H5 (a final grade of at least 77%)
3. MAT139H5 or MAT159H5
4. ISP100H5

Special Requirement: Students must complete a supplemental application to be considered for the program. Supplemental application deadlines are the same date as the POSt application deadline on ACORN. More information, including information about the supplemental application form, is available on the Department of Mathematical and Computational Sciences website here.

Courses to take in Year of Study 2: Complete CSC207H5/CSC207H1/CSCB07H3 by the end of Year of Study 2 to remain eligible for the program.

Students who have achieved a cumulative GPA of at least 2.5 are encouraged to apply. Students must be in good standing with no outstanding academic integrity cases.

Completion Requirements:
12.0-13.5 credits are required.

First Year:

CSC110Y5 and CSC111H5

1. ISP100H5
2. (MAT137H5 or MAT157H5) and (MAT139H5 or MAT159H5)
3. MAT223H5 or MAT240H5

Second Year:

1. CSC207H5 and CSC209H5 and CSC236H5 and CSC258H5 and CSC263H5
2. MAT224H5 or MAT240H5
3. MAT232H5 or MAT257Y5
4. STA246H5 or STA256H5 or ECO227Y5

Third Year:

1. CSC343H5 and CSC347H5 and CSC363H5 and CSC369H5 and CSC373H5
2. MAT301H5 and MAT302H5

Fourth Year:

1. CSC358H5 or CSC458H5
2. 1.0 credit from the following: CSC409H5 or CSC422H5 or CSC423H5 or CSC427H5 or CSC490H5 or CSC495H5

Notes:

1. In addition to the course requirements above, students must complete an integrative learning experience. This requirement may be met by participating in the UTM Co-op Internship Program (UTMCIP)* or by completing one of the following half-courses: CSC318H5, CSC367H5, CSC375H5, CSC376H5, CSC409H5, CSC420H5, CSC427H5, CSC477H5, CSC490H5.

*Please be advised that the UTMCIP only applies to UTM Computer Science students entering Year of Study 2. For more information about the UTMCIP, please visit the Experiential and

International Opportunities page of the UTM Academic Calendar.

2. Students are strongly encouraged to familiarize themselves with the 100-level calculus pre-requisites to select the correct courses.

Appendix B: Degree-Level Expectations (DLEs) for the Bachelor of Computer Science

As defined here: https://www.vpacademic.utoronto.ca/academic-programs/degree-diploma-certificate-programs/degree-level-expectations/

Guidelines for University of Toronto Mississauga Undergraduate Degree Level Expectations (2022)

This document provides the general competencies that must be demonstrated by all students in all UTM degree programs; all of these Undergraduate Degree Level Expectations apply to all disciplines, and the committee has taken care to write them so that this is possible.

The term “goals” refers to an instructor-centred, general outcome for each of the fields of study.

The term “learning outcome” refers to a student-centred, specific, and measurable outcome for each of the fields of study.

The H.B.A., H.B.Sc., B.C.S., B.B.A., and B.Com. at the University of Toronto Mississauga are awarded to students who have demonstrated the following competencies:

1. Breadth & Depth of Knowledge

Goals:

Breadth of Knowledge: In the course of their studies, students will gain an awareness and appreciation of the variety of modes of thinking, methods of inquiry and analysis, and ways of understanding the world that underpin different intellectual fields. Students will engage in critical thinking and analytical skills – including with respect to equity, diversity, and inclusion – through courses within and beyond their core field(s) of study, across the humanities, the social and behavioural sciences, and the natural sciences.

Depth of Knowledge: Students will attain depth of knowledge in their core field(s) of study through a progression of introductory, core, and specialized courses.

Outcomes:

a) Identify and examine the central concepts, theoretical approaches and assumptions, intellectual history, and recent advances of the core field(s) of study.
b) Describe the major topics in the core field(s) of study and how they relate to other fields of study.

c) Apply critical and analytical skills within and beyond the core field(s) ofstudy, including critical reflections on equity, diversity, and inclusion.

2. Knowledge of Methodologies
Goals: Students will have knowledge of and experience with different methodologies and approaches relevant to their core field(s) of study.

Outcomes: Identify and describe methods of inquiry and/or creative activity in their core field(s) of study.

a) Select and implement appropriate methodologies to engage in inquiry in their core field(s) of study.
b) Evaluate the efficacy of different methodologies in addressing questions that arise in the core field(s) of study.

3. Application of Knowledge
Goals: Students will be able to frame relevant questions for further inquiry within or beyond the core field(s) of study. They will be able to identify and apply the appropriate tools with which they can address such questions effectively. This includes a knowledge of how historical and present discrimination (including, but not limited to, discrimination on the basis of race, religion, sexuality, gender, and ability) affect these questions, problems, and solutions.

Outcomes:

a) Gather, review, interpret, produce, present, and critically evaluate information, arguments, assumptions, abstract concepts, hypotheses, and/or creative options.
b) Make informed judgments in accordance with the major theories, concepts, methods, and intellectual and creative traditions of the core field(s) of study.
c) Apply relevant concepts, principles, and techniques within and beyond the core field(s) of study.
d) Frame appropriate questions, solve problems, and propose and test solutions.
e) Formulate coherent lines of argument.

4. Communication Skills
Goals: Students will be able to effectively communicate and critically evaluate information, arguments, and analyses, using a range of modes of communication.

Outcomes:

a) Express information, arguments, and analyses accurately and with clarity, using inclusive language and a range of modes of communication.
b) Present work in a variety of formal and informal contexts in forms appropriate to the core field(s) of study.
c) Communicate effectively with a diverse range of audiences

d) Effectively convey an understanding of equity, diversity, and inclusivity principles by using respectful and inclusive language.

5. Awareness of Limits of Knowledge
Goals: Students will acknowledge and appreciate the limits of their own knowledge. They will also gain an awareness of the uncertainty, ambiguity, and limits of our collective knowledge and how these might influence analyses and interpretations.

Outcomes:

a) Identify the limits of their own knowledge and ability.
b) Recognize the uncertainty, power relations, ambiguity, and limits of knowledge and how this might influence analyses and interpretations.

6. Autonomy and Professional Capacity
Goals: Students will acquire the skills, knowledge, and critical problem solving they need to become informed, ethical, inclusive, independent, and creative thinkers and decision-makers; gain an awareness and appreciation that knowledge and its applications are influenced by and contribute to society as a whole; and lay the foundation for learning as a life-long endeavour.

Outcomes:

a) Manage and critically reflect on their own learning within and beyond the core field(s) of study.
b) Uphold the ethical values of the University, including freedom of expression and scholarly inquiry, academic integrity, equity, diversity, and inclusion, sustainability, and global citizenship.
c) Exercise initiative, personal responsibility and accountability in personal and group problem solving and decision-making contexts.
d) Identify how their areas of study relate to their personal and professional development.

Appendix C: Bachelor of Computer Science Working Group Terms of Reference and Meeting Dates

Bachelor of Computer Science Proposal Tri-Campus Working Group
Terms of Reference (July 2024)

In 2023, discussions began among the Faculty of Arts & Science, the University of Toronto Mississauga (UTM) and the University of Toronto Scarborough (UTSC) regarding the development of a new University of Toronto degree, a Bachelor of Computer Science (name to be confirmed).
The Office of the Vice-Provost, Academic Programs, provided a template for proposing this new degree. This working group will focus on completing a draft of this proposal in the 2024-25 academic year.

Key deliverables of the Working Group:

1. Draft degree proposal document with appendices from each division
2. Draft major modification proposals from each division to re-point pertinent programs to the new degree

Objectives
The Working Group will meet 5-6 times starting in July 2024. The Working Group will complete the degree proposal document collaboratively by:

- Articulating the academic rationale for the development of this new degree, including need and demand as well as impact on other degrees or programs at U of T
- Determining the most appropriate degree name (e.g., Bachelor of Computer Science)
- Developing Degree requirements and incorporating into division-specific Degree-Level Expectations for inclusion in the proposal
- Determining which programs would point to the degree
- Coordinating on a tri-campus consultation strategy to inform the development of the proposals and inform stakeholders
- Reporting on consultations undertaken at division and unit level (including students, faculty, and staff) for each campus
- Determine how implementation of the new degree will work and which options will be available to continuing students

Meeting Schedule Summary

- 90 minutes
- 5-6 meetings Online

Bachelor of Computer Science Proposal Tri-Campus Working Group
Schedule of Meetings

Working Group Meeting & Topic	Date and Time
Meeting # 1 Introductions and Scope of Group, Rationale	July 31, 2024, 9:00am - 10:30am
Meeting # 2 Consultations with Students and Employers, Degree Requirements	March 6, 2025, 3:00pm - 4:30pm
Meeting # 3 Degree Requirements, Abbreviations and Programs	May 26, 2025, 9:10am – 10:30am
Meeting #4 Reviewing Draft of Proposal & Fall Consultations	Sep. 15, 2025, 1:00pm - 2:30pm
Meeting #5 Reviewing Proposal Feedback & Consultations	Oct. 31, 2025, 2:00pm - 3:00pm
Meeting #6 Consultations and Major Modifications	Dec. 15, 2025, 1:00pm - 2:30pm

Appendix D: UTM Degree Requirements: Bachelor of Computer Science

Degree Requirements, Bachelor of Computer Science (BCS), University of Toronto Mississauga

***Note:** the following degree requirements are aligned with the existing degree requirements for the Honours Bachelor of Science

Bachelor of Computer Science (BCS)

To qualify for a Bachelor of Computer Science (BCS) degree, a student must meet the following requirements:

Course Requirements

Complete at least 20.0 credits (i.e. with a grade of 50% or more or CR), meeting the following criteria:

- At least 13.0 credits at the 200+ level including a minimum of 6.0 credits at the 300/400 level (no more than 1.0 credit at the 300/400 level of transfer credit may be counted with the exception of courses taken through an official university exchange program).
- No more than 15.0 credits may have the same three-letter designator (e.g. "CSC," "MAT," etc.)

Distribution Requirements

- Complete at least 1.0 credit from each of the following divisions: Humanities, Sciences, Social Sciences. See Note 2 for details.

Grade Requirement

- Achieve a Cumulative GPA of 1.85 or more by the time of graduation.
- Students who meet all the requirements for the Bachelor of Computer Science except for the GPA requirement may elect to graduate with a 4-year Bachelor of Science degree provided they are in Good Standing (i.e., CGPA is 1.50 or more).

Program Requirements for a Bachelor of Computer Science Degree

- Computer Science Specialist or Information Security Specialist, OR
- Computer Science Major plus one Major in Science or Arts, OR
- Computer Science Major plus two Minors in Science or Arts

Considerations for combining programs:

- Students who combine programs must check the program requirements listed in this Calendar to ensure that their chosen programs have 12 distinct credits among them.

- Students who combine a Major in Computer Science and one Major or two Minors in a Science area may be eligible to receive either a BCS or HBSc. In such cases, students will be awarded a BCS unless notification is given to the Office of the Registrar.
- Students who combine a Major in Computer Science and one Major or two Minors in Arts may be eligible to receive either a BCS or HBA. In such cases, students will be awarded a BCS unless notification is given to the Office of the Registrar.
- Students who combine a Major in Computer Science with one Minor in a Science area and a second Minor in an Arts area are eligible to receive only the BCS.
- While planning for the upcoming year, students may apply for as many programs as they wish on ACORN. However, students must make timely decisions on their final selection as soon as possible. No more than three programs may be listed on ACORN under the "Currently Enrolled" section, with no more than two Specialists or two Majors. Students who wish to combine programs must adhere to one of the appropriate combinations listed above.
- For degree completion, it is not permissible to complete more than one program type (Specialist, Major, Minor) containing the same final four-digit program code. For example, students may not complete a Major in Computer Science (ERMAJ1688) and a Minor in Computer Science (ERMIN1688).

Notes:

1. Students may consult with an Academic Advisor in the Office of the Registrar regarding degree requirements. Consult the departmental program advisor regarding program requirements.

2. On distribution requirements:
    - Not all courses offered fulfill distribution requirements.
    - Some courses have two assigned distributions. In these cases, the course will count towards one distribution requirement, but cannot fulfill two requirements simultaneously.
    - Courses used to fulfill program requirements may also be used to fulfill distribution requirements.
    - Students who are unsure about their distribution requirements or who need information on another U of T campus should contact the Office of the Registrar.
    - Students wishing to use transfer credit(s) to fulfill distribution are responsible for confirming with the Office of the Registrar that the credit is acceptable for this purpose.