

Office of the Vice President  
Academic and Research  
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## EXECUTIVE SUMMARY & IMPLEMENTATION PLAN

### PROGRAM UNDER REVIEW

PROGRAM	SENATE APPROVAL DATE	PREPARED BY
Computer Science	June 03, 2022	Acting Academic Dean

### A. Summary of review process and listing of programs under review

Self-study review timeline	Date
1. Self-study received by the CAO	November 10, 2020
2. Site visit conducted	June 7-8, 2021
3. Reviewers' report received	July 5, 2021
4. Department's response received	September 8, 2021
5. CAO's response received	November 8, 2021
6. Report on Program Quality approved by the Quality Assurance Committee	March 8, 2022
7. Final Assessment Report approved by Senate	May 4, 2022

**The members of the Review Committee were:**

- Dr. Wenying Feng (Professor, Department of Mathematics, Trent University)
- Dr. Haibin Zhu (Professor, Department of Computer Science and Mathematics, Nipissing University)

**The academic programs offered by the Department which were examined as part of the review included:**

- Bachelor of Computer Science (Honours)
- Bachelor of Computer Science - Computer Game Technology (specialization)
- Bachelor of Computer Science - Computer Game Technology and Creative Arts (specialization)
- Bachelor of Computer Science - Mobile Software Engineering (specialization)
- Bachelor of Computer Science (General) Single Major
- Bachelor of Science (Honours and Non-Honours) Single Major Computer Science
- Bachelor of Science (General ) Single Major Computer Science
- Accelerated Second Degree Program
- Bachelor of Science in Computer Science or Bachelor of Computer Science (General)
- Graduate Certificate in Computing
- Graduate Certificate in Computer Game Technology
- Graduate Certificate in Information Technology
- Graduate Certificate in Mobile Software Development
- Honours Diploma in Computer Science
- Minor in Computer Science

This review was launched under the terms and conditions of the IQAP approved by Senate on November 1, 2013 and ratified by the Quality Council on December 13, 2013. Steps following the submission of the departmental response followed the terms and conditions of the IQAP approved by Senate on September 8, 2017 and re-ratified by Quality Council on April 20, 2018.

## B. Implementation Plan

Below are the recommendations from the Review that require further actions, together with the specific unit or position responsible for executing it, action timelines and required resources.

<b>Nr.</b>	<b>Recommendation</b>	<b>Responsible for Leading Follow-Up</b>	<b>Timeline for Addressing Recommendation</b>	<b>Required Resources</b>
1.	With increasing enrollment, it is recommended to ensure	School Director Faculty Chair	June 30, 2024, and ongoing	

	effectively the quality of programming (recommendations 1 and 11 in the Report on Program Quality)			
2.	Revise course descriptions and titles to follow the current state of knowledge and make courses more attractive	School Director Faculty Chair	June 30, 2023 and ongoing	None
3.	COSC 1701 Computer Applications I and COSC 1702 Computer Applications II should not be taken as COSC elective credits for computer science program students	School Director Faculty Chair	This has been completed by May, 2022	None
4.	Offer more advanced cutting-edge courses as elective courses to extend the opportunities for the students to choose from, such as data mining, data analytics, big data, visualization, cloud computing, and deep learning	School Director Faculty Chair	June 30, 2023	Expertise required from current faculty or new hires
5.	The School and faculty members are recommended to make more/maintain efforts in conducting high-quality and visible research, providing the students with more opportunities to learn the most advanced technologies, and producing high-quality graduates	School Director Faculty Chair	June 30, 2023 and ongoing	
6.	Ensure regular course content updates for the online programming offered to maintain quality	School Director Faculty Chair	June 30, 2023 and ongoing	None
7.	It is recommended that the university and the School make more connections to	School Director Faculty Chair	June 30, 2023 and ongoing	Support from an EL staff who has developed

	the local industry to track the alumni's working performance and visible contributions to the industry, which will provide solid indicators for keeping or improving the program to be developed sustainably			networks with local industry
8.	The school should organize more frequent research seminars with external speakers for faculty members and senior undergraduate students. The seminars could be interdisciplinary so that faculty members from other academic units can attend and collaborate.	School Director Faculty Chair	June 30, 2023 and ongoing	None