

EXECUTIVE SUMMARY & IMPLEMENTATION PLAN

Under Nipissing University's Institutional Quality Assurance Process (IQAP) and the Ontario Universities Quality Assurance Framework (QAF), all programs are subject to a comprehensive review at least/at minimum every eight years to ensure that they continue to meet provincial quality assurance requirements and to support their ongoing rigour and coherence. This review was conducted under the terms and conditions of the IQAP approved by Senate on June 29, 2023 and ratified by the Quality Council on May 5, 2023

In academic years 2023-24 a program review was scheduled for BA and BSc Mathematics. This was the 3rd program review for this program. The timeline of the review was as follows.

PROGRAM UNDER REVIEW

PROGRAM	SENATE APPROVAL DATE	PREPARED BY
Mathematics	November 8, 2024	Provost and Vice-President

A. REVIEW TIMELINE

SELF-STUDY REVIEW TIMELINE	DATE
1. Self-Study Presented to AQAPC	September 25, 2023
2. Site Visit Conducted	March 25, 27 & 28, 2024
3. Reviewer's Report Received	May 28, 2024
4. Department's Response Received	September 9, 2024
5. Dean's Response Received	September 25, 2024

A. REVIEW SUMMARY

Two external reviewers conducted the review. During the in-person site visit, the reviewers met with the following groups and individuals:

Provost and Vice President, Academic

Dean and Associate Dean, Arts and Science

Internal Review Committee

Registrar and Associate Registrars

Library Executive Director and Librarians

Current Students

Associate Vice President, Research, Innovation and Graduate Studies

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

Bachelor of Science – Mathematics

Bachelor of Arts – Mathematics

The following program strengths were noted:

The Mathematics program aligns closely with the university mission and academic plan, emphasizing high academic standards, student experience, support for northern communities and Indigenous learners, and commitment to transparency, respect, equity, diversity, and inclusion.

Summary of review team recommendations:

Suggestions include increasing recruitment efforts especially for the applied mathematics stream via outreach activities like Math Circles and high school visits; enhancing collaboration with the Education department through joint seminars and mentorship in senior projects; strengthening indigenization strategies by engaging with the Office of Indigenous Initiatives to incorporate Indigenous ways of knowing into mathematics courses; and considering interdisciplinary development of the Data Science program with potential new hires to support this growth and gender diversity.

Status:

Due date for 2 Year Follow-up Report: 2026

Date of next Cyclical Review: 2030

B. IMPLEMENTATION PLAN

Below are the recommendations that require specific action as a result of the Review, along with the identification of the position or unit responsible for the action in question. Notwithstanding the position or unit identified as being responsible for specific recommendations, the Dean of the Faculty has the overall responsibility for ensuring that the recommended actions are undertaken

RECOMMENDATION	RESPONSIBLE MEMBER/UNIT	PROJECTED COMPLETION
Recommendation #1: document outreach activities with dates and measures	Math/CS and Dean	January 31, 2025
Recommendation #4: Data Science redesign	Dr. Mark Wachowiak, Dean with Manager, QA and PI	February 15, 2025 or sooner
Recommendation #6, 7, 5: Program outcomes assessment and, as a subset of that, WIL	Math/CS, Dr. Kari Rasmussen and Denyse LaFrance-Horning	November 1, 2024, but if not reasonable, April 30, 2025
Recommendation #2, 3: Coordinate efforts with internal colleagues in OII and SSoE	Math/CS and Deans and Director, OII	Ongoing