Cyclical Program Review of Academic Programs offered by the Department of Civil Engineering
Progress Report on Implementation Plan: 4-year

Date: 2/9/2022

Contact: Ian Moore Head of Department ian.moore@queensu.ca

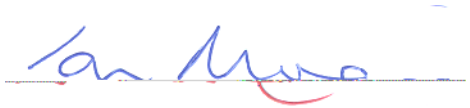
Programs	Degrees
Civil Engineering	BASc, MASc, MEng, PhD
Applied Sustainability	MASc, MEng
Geo Engineering	MASc, PhD

Table 1 Add/delete rows as required

At the conclusion of the cyclical program review, a final assessment report and implementation plan was agreed by the Teaching and Learning Office and the Deans of the Faculty of Engineering and Applied Science and the School of Graduate Studies. These deans are responsible for monitoring the implementation plan. This report is an important step in the overall cycle of continuous improvement and is an opportunity to reflect on, and document, the progress made on incremental improvements to address recommendations in the implementation plan.

Please complete the table below to report on progress made in the past 4 Years against the implementation plan. Add further explanation, if necessary, in the *additional notes* section.

Please complete this report and return it to quqap@queensu.ca by 2/25/2022. The Teaching and Learning Office will review this progress report. It will then be appended to the Deans' annual reports for the 2021-22 academic year, filed in the Office of the Provost and Vice-Principal (Academic). Please note that monitoring reports will be posted on the University web site.



February 12th, 2022

Signature of Unit Head *Date*

May 2, 2022

Signature of Faculty Dean *Date*

May 10, 2022

Signature of Dean (SGS) *Date*

May 19, 2022

Signature of Associate Vice-Principal (Teaching and Learning) *Date*

	Two new technical electives, CIVL 490 *Selected Topics in Civil Engineering F (fall term)* and CIVL 491 *Selected Topics in Civil Engineering W (winter term)* have been approved. These are described as "*Providing advanced study and application of selected topics in Civil Engineering, these courses will be offered periodically by visiting faculty and professionals. Consult the Department homepage for opportunities"*. An alumnus who is a retired expert on transportation and highway design, Michael Chiu, is currently using CIVL 491 to teach '*Introduction to Transportation Engineering'* in the Winter 2022 term. The objective is to use these three new courses to ensure that there are at least five 4th year List 1 technical electives taught each term. Additionally, **eleven** 400-level (or higher) courses have been added as List 2 Technical Electives since the last CPR, which significantly broadens the course selection for fourth year students[1]. Further consultation with industry partners and RMC is expected to occur between now and 2024.

1. New "List 2" tech electives since the 2017-

Recommendation 2: Reviewers recommend that the unit provide opportunity for students in later parts of their program to refresh their understanding of the effects of mental health problems and resources available to address it.	
Proposed follow-up	Target specific courses and activities to educate all undergraduate and graduate students about mental health. Ensure all students are aware of the two FEAS embedded counsellors available to them. Continue to orient graduate students to mental health resources. Frequently review student workload with an eye to minimizing stress.
Responsibility for leading follow-up	Department Head and Associate Dean Academic
Timeline for addressing recommendation-up	

housing, family abroad, and community involvement (https://engineering.queensu.ca/engwell-hub/).

FEAS has also been redeveloping the mental health supports embedded into Student Services. In late 2021, they created and hired for a new

Which support units have been engaged as collaborators in supporting additional deliverables? (If no, please indicate 'N/A')	N/A
What is the current status of the follow-up? **Include a completion percentage**	Completed 100%
Please provide a brief description of the current, completed or planned work	A training course developed in collaboration with the Engineering Teaching and Learning Team is now a requirement for all new teaching Assistants. These individuals are paid to take the course.

Recommendation 4: Reviewers recommend that the unit provide additional training for graduate students who have weak skills in handling tools in the lab to ensure that they are not labeled too early as inept or not trustworthy in the labs.	
Proposed follow-up	The Department's safety committee implemented detailed procedures for monitoring graduate student training in the use of laboratory tools and techniques, and that training now evolves over the student's candidature for their graduate degree. The management team and the Department Manager will remind supervisors initially and annually to identify graduate students who need additional training.
Responsibility for leading follow-up	Department Head
Timeline for addressing recommendation	Ongoing
Are there additional deliverables associated with the proposed follow-up?	No

Which support units have been engaged as collaborators in supporting additional deliverables? (If no, please indicate 'N/A')	N/A
What is the current status of the follow-up? **Include a completion percentage** **Please provide a brief description of the current, completed or planned work**	Completed 100% The department has implemented the following process to address this recommendation: All graduate students are now required to take CIVL 801, the Department's mandatory safety training course, which includes a module on the safe use of tools. In addition, each student receives

Are there additional deliverables associated with the proposed follow-up?	No

increasing the number of women pursuing engineering and the retention of existing women in the field (https://engineering.queensu.ca/women-in-engineering/). The Department supports various initiatives led by the *Chair* position, such as the WiE Summer Research Grant, which provides funding to women undergraduate students interested in conducting summer research.

The FEAS office has also responded to this recommendation by launching the faculty-wide *Engineering for Everyone* (

undertaking research in emerging topics like the effects of climate change on permafrost (cryo-hydrogeology) and water treatment to remove pharmaceuticals and emerging contaminants like PFAS (

The FEAS Strategic Plan was released in February 2022

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What is the current status of the