

ACADEMIC COUNCIL REPORT

ACTION REQUESTED:

Recommendation
Decision
Discussion/Direction
Information

DATE: 24 October 2023

FROM: Undergraduate Studies Committee

SUBJECT: Major Program Modification – Bachelor of Engineering –
Manufacturing Engineering

COMMITTEE MANDATE:

In accordance with the Undergraduate Studies Committee (USC) Terms of Reference, USC has the responsibility “to examine proposals for new undergraduate degree and diploma programs, major changes to existing programs and to recommend their approval, as appropriate, to the Academic Council”.

MOTION FOR CONSIDERATION:

That, pursuant to the recommendation of the Undergraduate Studies Committee, Academic Council hereby approves the Major Program Modifications in the Bachelor of Engineering (Honours) in Manufacturing Engineering to establish a new Pathway for graduates of Durham College’s Mechanical Engineering Technology Diploma.

BACKGROUND/CONTEXT & RATIONALE:

The Manufacturing Engineering program is the only accredited Manufacturing Engineering program in Ontario and one of only three in Canada. The program is designed to prepare students for careers in advanced manufacturing.

The Manufacturing Engineering Pathway program provides graduates with a three-year Mechanical Engineering Technology Diploma from Durham College an opportunity to complete a Bachelor of Engineering (Honours) degree in Manufacturing Engineering at Ontario Tech in three years. Eligible graduate students from the Mechanical Engineering Technology Diploma at Durham College will be granted a block of transfer credits upon acceptance into the Pathway.

The collaboration with Durham College will attract highly qualified students to the Manufacturing Engineering program and improve enrolment numbers in the program. The coupling of a diploma with an engineering degree will make graduates of this program highly skilled and employable.

RESOURCES REQUIRED:

All the courses offered as part of the Pathway are already being offered at Ontario Tech, including the four bridge courses. Funding will be required to offer PHY 1010U in the Spring semester as part of the four course bridge as it is currently not offered in the spring/summer semester. The other courses in the bridge are already offered in the Spring/Summer semester.

CONSULTATION AND APPROVAL:

Undergraduate Studies Committee: 19 September 2023

Faculty Council: 8 December 2022

Engineering Curriculum Committee: 17 November 2022

MME Department Council: 10 November 2022

Consultation occurred throughout the development of the Pathway. There were several meetings between the Ontario Tech Faculty of Engineering and Applied Science and the Durham College Faculty of Science, Engineering & Information Technology. After discussions, all parties were satisfied and reached a Memorandum of Understanding (MoU) regarding the terms for the Pathway. Consultation also took place with the Registrar's Office and CIQE. In addition, consultations were held with the Faculty of Science regarding the delivery of the four bridge courses.

NEXT STEPS:

- Once approved by Academic Council, the changes will be included in the 2024-2025 Academic Calendar.

SUPPORTING REFERENCE MATERIALS:

- [Major Program Modification proposal](#)
- Memorandum of Agreement DC OUT Engineering March 2023.pdf*
- DC to UOIT Program Map dated June 2023.xlsx*

**These files are available for download and review under the 'Files' menu within the Major Program Modification Proposal at the link above.*