



### **Bachelor of Engineering in Mechanical Engineering**

**18-Month Follow-Up**  
**Dean: Dr. Tarlochan Sidhu**

Under Ontario Tech University's Quality Assurance Framework, all degree programs are subject to a comprehensive review every eight years to ensure that they continue to meet provincial quality assurance requirements and to support their ongoing rigour and coherence. Program reviews involve several stages, including:

1. A comprehensive and analytical self-study brief developed by members of the program under review.
2. A site visit by academic experts who are external to and arm's length from the program who prepare a report and recommendations on ways that it may be improved based on a review of the program's self-study and supporting material, and a two day site visit involving discussions with faculty, staff and students and a tour of the facilities.
3. Development of a plan for improvement by the program and proposed timelines for implementation.

All programs that undergo a review must provide a report eighteen months after the completion of the review to gather information on the progress that has been made implementing the agreed upon plans for improvement.

In 2016-2017 a program review was scheduled for the Bachelor of Engineering in Mechanical Engineering, with a site visit November 13-14, 2017. The program has submitted to the Provost's Office a comprehensive chart outlining the progress they have made relative to the action plans resulting from the review. A summary of this progress is provided on the following pages. The summary report is reviewed by the appropriate standing committee of Academic Council and is subsequently reported to Academic Council and the Board of Governors.

**Next Scheduled Program Review: 2023-2025**

<b>Action Items</b>	<b>Process Status</b>	<b>Comments</b>
Introduce departmental research and teaching awards.	<i>On hold - Pending Board approval for action item #3.</i>	<i>Waiting formation of new departments (see below).</i>
Addition of six faculty members to the Faculty of Engineering to help increase the faculty to student ratio.	<i>Complete</i>	<i>Since 2018, there have been 2 TTT and 3 TF hired. A further 2 TTT are currently being hired (one being a Tier 1 CRC).</i>
Move the Mechanical Engineering program into newly created, smaller department.	<i>Complete</i>	<i>Proposal to form a Department of Mechanical and Manufacturing Engineering and a Department of Automotive and Mechatronics Engineering has been approved by Faculty Council and Academic Council.</i>
Define the Departmental Chair role and responsibilities.	<i>Complete</i>	<i>Governed by new Collective Agreement.</i>
Develop more online content for courses, being careful to prioritize quality over speed and quantity.	<i>Complete*</i>	<i>Professors are continually developing online content for their courses. This varies from course to course.</i>
Form a First Year Curriculum Committee with instructors from the Faculty of Science to coordinate the delivery of Natural Science courses to Engineering students.	<i>Complete</i>	<i>Discussions have taken place to enhance the first year curriculum.</i>
Make ACE's machine shop available to undergraduate students and provide the appropriate safety training.	<i>On hold</i>	<i>There are a number of safety and budgetary issues that need to be addressed before this can move forward.</i>
Increase the number of administrative and technical support resources.	<i>Complete</i>	<i>New Mechatronics Technician hired.</i>

*\*The Faculty deems this action item as a priority requiring ongoing review and consideration.*