

CARLETON UNIVERSITY COMMITTEE ON QUALITY ASSURANCE
Cyclical Review of the undergraduate programs in Biomedical and
Mechanical Engineering

Executive Summary

This Executive Summary and Final Assessment Report of the cyclical review of Carleton's undergraduate programs in Biomedical and Mechanical Engineering are provided pursuant to the provincial Quality Assurance Framework and Carleton's Institutional Quality Assurance Process (IQAP).

EXECUTIVE SUMMARY

The undergraduate programs in Biomedical and Mechanical Engineering reside in the Department of Mechanical and Aerospace Engineering.

A cyclical review of these programs was completed in conjunction with the accreditation review process undertaken by the CEAB.

As a result of the review, the programs were categorised by the SQAPC as being of **GOOD QUALITY**. (Carleton's IQAP 7.2.12).

The Report of the Visiting Team offered a very positive assessment of the programs. Within the context of this positive assessment, the report nonetheless made one recommendation for the continuing enhancement of the programs. These recommendations were productively addressed by the unit Director, and Dean of the Faculty of Engineering and Design in a Unit Response and Action Plan that was submitted to SQAPC May 7, 2020.

**Action Plan
Biomedical and Mechanical Engineering
Undergraduate Programs**

May 21 2020

<p style="text-align: center;">External Reviewer Recommendation & Categorization</p> <p>Note: Definitions from CEAB Accreditation Standards: Concern: Criterion satisfied; potential exists for non-satisfaction in near future. Weakness: Criterion satisfied; insufficient strength of compliance to assure quality of program will be maintained. Deficiency: Criterion not satisfied.</p>	<p style="text-align: center;">Action Item</p>	<p style="text-align: center;">Owner</p>	<p style="text-align: center;">Timeline</p>	<p style="text-align: center;">Will the action described require calendar changes? (Y or N)</p>
<p>1. Weakness: Some indicators for graduate attribute (3.1.6) were misaligned or inadequately sampled to demonstrate compliance. (Criterion 3. 1)</p>	<p>At the time of the last visit, GA 6 (individual and teamwork) was only assessed in the 4th year capstone project at the Applied level. This was addressed shortly after the 2015 visit, and we now measure GA 6 in the 1st, 2nd and 4th years of the program at all three levels (IDA). Data from these indicators has been collected several times during the intervening years, with good results. Complete details can be found in Exhibit 1 of the 2019 CEAB submission.</p>	<p><i>Ron Miller</i></p>	<p><i>Completed, 2017</i></p>	<p><i>n</i></p>

