UNIVERSITY OF TORONTO
FACULTY OF APPLIED SCIENCE & ENGINEERING

Report No. 3772

MEMORANDUM

To: Executive Committee of Faculty Council (November 19, 2024)
Faculty Council (December 18, 2024)

From: Professor Dionne Aleman
Associate Dean, Cross-Disciplinary Programs

Date: October 8, 2024

Re: **Inclusion of the Undergraduate Certificate in Electric Vehicle Design and Certificate in Renewable Resources Engineering in the U of T Sustainability Scholar Program**

REPORT CLASSIFICATION

This is a routine or minor policy matter that will be considered by the Executive Committee for approving and forwarding to Faculty Council for information.

BACKGROUND

The University of Toronto Sustainable Scholar Working Group was created out of the President's Advisory Committee on the Environment, Climate Change and Sustainability. The intent of the working group is to enhance programming in sustainability for the university as a whole. As part of this, they proposed to create the U of T Sustainability Scholars program, a U of T transcript recognition similar to that which was recently created for the U of T Global Scholars program, to recognize students pursuing studies in the area of sustainability.

The Faculty's existing undergraduate minors in Sustainable Energy and Environmental Engineering, offered through the Cross-Disciplinary Programs Office, were added to this program in 2020. Recently the Advisory Committee identified two of our certificates as appropriate programs for inclusion in this initiative as well.

PROPOSED CHANGES

In order to add these certificate programs to the Sustainability Scholars program, the title of the certificates in the calendar entry and the notation on students' transcripts will now read "Certificate in Electric Vehicle Design (U of T Sustainability Scholar)" and "Certificate in Renewable Resources Engineering (U of T Sustainability Scholar)." Revised calendar entries are shown below.

EFFECTIVE DATE

The new titles and transcript notations will be effective starting September 2025.

CALENDAR ENTRIES

1) The calendar entry for the Certificate in Electric Vehicle Design will now read as follows (updates are in red):

Certificate in Electric Vehicle Design (U of T Sustainability Scholar) – AECEREVD

Electrifying the transportation sector is one of the major priorities to reach Net Zero emissions. The transition to electric vehicles (EVs) in the automotive sector is the largest technology shift in over 100 years. A new generation of skilled engineers is needed to address the cross-disciplinary challenges in the growing EV sector.

This certificate provides an opportunity for students to learn about EVs within the context of engineering applications and expand their understanding of the technical and environmental implications of engineering in EV design.

All undergraduate engineering students are eligible to participate in this certificate program. Students who complete the requirements of the certificate will receive a notation on their transcript upon graduation and are considered University of Toronto Sustainability Scholars.

2) The calendar entry for the Certificate in Renewable Resources Engineering will now read as follows:

Certificate in Renewable Resources Engineering (U of T Sustainability Scholar) – AECERRRE

Successful completion of an Engineering Certificate is included on transcripts. Note that no course counted for degree credit, can be counted for more than one minor or certificate.

The Forestry faculty at the John H. Daniels Faculty of Architecture, Landscape, and Design have expertise in sustainable resource management and bio-economics, sustainable energy production, green manufacturing and sustainable communities. This grouping of courses developed for engineering students reflects the strong interconnections between their work and various branches of engineering. The certificate provides recognition for a demonstrated focus in renewable resources. Students in all disciplines are eligible to participate in this certificate. Students who complete the requirements of the Certificate in Renewable Resources Engineering are considered University of Toronto Sustainability Scholars.

CONSULTATION

The title and transcript notation changes were discussed and endorsed by the Undergraduate Curriculum Committee. Faculty members associated with the certificates at FASE and DFALD were also consulted.

RECOMMENDATION FOR FACULTY COUNCIL

For information.