



2016/17-05

MEMORANDUM

To: Members of the Faculty of Applied Science & Engineering

From: Cristina Amon

Date: December 1, 2016

Re: **Committee to Review Engineering Strategies & Practice (ESP)**

In February 2015, the Faculty's Core Curriculum Review Task Force presented its final report to Faculty Council. One of the 10 recommendations related specifically to the curriculum and delivery of Engineering Strategies & Practice (ESP) I and II. It recommended that a thorough review of the content and delivery of ESP I and II be conducted by a panel of representatives from each department. This review should result in clear actions to better integrate ESP with other first-year courses and departmental curricula, improve the assessments within the course, ensure a reasonable course workload, and improve awareness of the purpose and outcomes of these courses within the departments and Faculty. It will specifically focus on the design curriculum in the first-year Core 8 and TrackOne programs.

Accordingly, we have established a committee to conduct a review of ESP. It is expected that the committee will incorporate the CEAB Graduate Attributes into this review process. In addition, the review should be guided by the major concerns that were identified by the Core Curriculum Review Task Force in their final report. These were:

- Guidance, Feedback, and Marking of Major Assessments
- Lack of Integration with other First-Year and Upper-Year Courses
- Enhanced Student Participation
- Improved Awareness of the Purpose and Outcomes of ESP within the Faculty
- Inclusion of Ethics
- Workload and Flow of Content

The terms of reference and reporting date are provided below.



Cristina Amon, Dean

TERMS OF REFERENCE

1. Identify the unique character of the first-year Core 8 and TrackOne engineering design experience at the University of Toronto;
2. Examine the existing content and delivery of ESP I and II;
3. Gather and review student, staff, and faculty feedback, guided by the specific concerns highlighted by the Core Curriculum Review Task Force;
4. Determine how Engineering Strategies and Practice can be effectively integrated with the first-year curriculum and upper year (2nd year – 4th year) design and communication courses;
5. Recommend changes if any to the content or delivery of Engineering Strategies and Practice;
6. Identify and recommend a course of action for implementation of any proposed changes.

Once complete, the Review Committee's report will be received by the First Year Core 8 Curriculum Committee who will work to act on the recommendations through Faculty governance and in collaboration with the ESP teaching team.

Reporting Date: April 2017

I am grateful to the following who have agreed to serve as members of this Review Committee:

- Professor Kamran Behdinan (Committee Chair, MIE, University of Toronto Institute for Multidisciplinary Design & Innovation)
- Professor Evan Bentz (CivE/MinE)
- Professor Vaughn Betz (ECE)
- Professor Jason Foster (EngSci)
- Mr. Mike Klassen (ILead)
- Mr. Milan Maljković (President, Engineering Society)
- Professor Yuri Lawryshyn (ChemE)
- Professor Micah Stickel (Chair, First Year)
- Professor Deborah Tihanyi (ECP)
- Professor Chirag Variawa (Director of First Year Curriculum)

Enclosure: A Brief Introduction and Overview of Engineering Strategies and Practice I and II (APS111 and APS112) – November 2016