Faculty of Engineering

Faculty Council

Meeting 2021.05

9:00 a.m. Nov 11, 2021 online on Microsoft Teams and CBY A707

PRESENT

Officers of the Faculty
J. Beauvais, K. Hinzer, L. Peyton, M. Labrosse, T. Lethbridge, C. D'Amours, N. Baddour, M. Fall, C. Adams, H. Anis., X. Cao

Professors
K. Meek, A. Macchi, A. Weck, B. Lessard, H. Aoude, B. Martin-Perez, C. Lan, A. Sowinski, E. Dragomirescu, I. Catelas, E. Petriu, M. Bouchard, H. Schriemer, J. Infante Sedano, J. Zhao, M. Noël, N. Zaguia, T. Uchida, M. Hasan, M. Majeed, W. El Ahmar

Students
A. Bezerra, F. Jaheen, A. Fellah Jahromi, S. Kateel, R. Ebrahim, K. Bondy, P. Kennedy

Others including guests and non-members
S. Gandolfini, F. Bouchard, H. Howes, M. Kimberley

REGRETS

Officers of the Faculty
D. Taylor

Professors
B. Dhillon

Students
H. Yue Wang, S. Li, N. Castro

ABSENT

Professors
H. Al Osman, J. Yao, G-V. Jourdan, R. St-Gelais

Students
R. Ferdousi, N. Castro, H. Wang, V. Jidkov, S. Li, E. Leblanc, S. Knysh, M. Lynds

21.05.01 Approval of the Agenda

The Dean indicated that his intention is to end the meeting in time for people to attend the downtown Remembrance Day ceremony if they wish.

There was a round of applause for the renewal of Dean's mandate.

The Agenda was approved. Motions will be presented first, before reports.

21.05.02 Graduate Studies Curriculum Change Motions

Liam Peyton presented the motions in numerical order. He indicated that most of them were clean-up.

On a motion duly moved and seconded, Faculty Council approved 2021-GRAD-GENIE- SYS-02 (Major). Abolition of the Graduate Diploma in System Science and Engineering.

On a motion duly moved and seconded, Faculty Council approved 2021-GRAD-GENIE- EVG-05: Creation of EVG 7206 Energy and Resources From waste for all programs in Environmental Engineering. (equivalent to ENVE 5206 offered at Carleton – Joint Institute). Plus, this updates the list of optional courses for all EVG Programs

On a motion duly moved and seconded, Faculty Council approved 2021-GRAD-GENIE-BMG-06 (Major): 1. Gives a choice of BMG Research project or GNG Industry Internship project or 6 units of any graduate course. 2. Consolidates the course-only and course-with-project option into one single description, both being 27-unit programs. (Before, the course-based was 30 units and the project-based was 27). 3. Ensures that students in the new consolidated program take a minimum of 12 units of optional courses in BMG (as was required by the previous course-only option) and at least 3 units in engineering.

On a motion duly moved and seconded, Faculty Council approved 2021-GRAD-GENIE- ELG-07: Changes the course title and description for ELG5301

On a motion duly moved and seconded, Faculty Council approved 2021-GRAD-GENIE-GNG-08: 1- Updates the course title and description for GNG5301. 2- Specifies that all GNG5000 and higher course codes have a passing grade of B by default.

On a motion duly moved and seconded, Faculty Council approved 2021-GRAD-GENIE-CHG-09 (Major): Creates of an accelerated Master's option for top undergraduate students who have taken 2 graduate courses during their undergraduate degree.

On a motion duly moved and seconded, Faculty Council approved 2021-GRAD-GENIE-CSI-10: Transforms one topics course into a regular course and cross-lists two courses from the electrical and computer engineering graduate program., CSI5107 Principle of Intelligent Transportation Systems (3cr.). CSI5218 Uncertainty Evaluation in Engineering Measurements and Machine Learning (3cr.). CSI5108 Introduction to Convex Optimization (3cr.). Creates course codes for Carleton courses that are missing their entry and equivalent codes in our calendar: CSI5350 Machine Learning for Healthcare (COMP5113). CSI5351 Quantum Communications and Networking (COMP5114). CSI5352 Internet Measurement and Security (COMP5500). Corrects minor errors in the description of many existing courses.

On a motion duly moved and seconded, Faculty Council approved 2021-GRAD-GENIE-ELG-11: Abolishes 40 ELG courses not offered over the past 5+ years.

21.05.03 Approval of the Minutes of the September Meeting

The minutes had been approved by email.

21.05.04 Matter arising from the minutes

The new 3-year program was adopted by Undergraduate Council, and we are now awaiting the visit and report of the external evaluators.

21.05.05 Report of the Dean

The Dean thanked everybody who had congratulated him for his renewal.

We have received much exciting news in the last few weeks.

We announced the Smart Connected Vehicles Innovation Centre in Kanata North under the leadership of Burak Kantarci.

Construction of CyberRange in STEM has started. The Dean pointed out that this looks like a spaceflight command centre. We will run cyberattack scenarios. G-V. Jourdan is the co-leader on the University side. It should be functional by late Spring. Members of the CyberHub can make use of this.

We held an in-person open house with prospective students, the first since before the pandemic.

There have been several recent industry visits.

Numbers of people applying to be new students in September 2022 are very good so far.

On our Web page, we are highlighting work going on in the topic of Climate Change. The Dean pointed out that a lot of the future technologies mentioned in a recent Economist article coincide with projects we are working on.

We are starting to migrate Faculty Web pages to the new platform. Marcelle Kimberley and Jakie Laflamme are working on gathering input.

The Vice-Dean Governance will be working on strategies to encourage students to come back to campus, including conducting a survey of students. We have emphasized to the Campus Recovery Task Force that we need the cafeteria re-opened.

The Dean pointed out that we have to be vigilant and follow protocols for Covid-19. The R-number is now above 1 in Ottawa. Agnes Bezerra reminded everybody that we need to do the daily screening. There are no more capacity limits on campus.

The Dean indicated that mental health is currently a central concern.

21.05.06 Report of the Vice-Dean Research

The Vice-Dean encouraged students to apply for NSERC and OGS Scholarships.

22 NSERC Discovery Grant proposals were submitted.

Two major NIF CFI proposals are under consideration at the university, and 6 with other universities. The Dean pointed out that our recent CFI awards were historic in their impact.

21.05.07 Report of the Vice-Dean Undergraduate Studies

The accreditation visits have been happening this week. He wants to do a 'brain dump' following this process, since there is a lot that we forget from visit to visit.

The Dean thanked everybody for their participation and hard work in the accreditation process.

21.05.08 Report of the Vice-Dean Graduate Studies

The Vice-Dean indicated that registration numbers are looking good.

21.05.10 Other Business

Agnes Bezerra raised several issues. She suggested that more information be circulated about UROP (Undergraduate Research Opportunity Program), including helping students find a professor. K. Hinzer pointed out that UROP is centrally managed. She said that students contact professors up to a year in advance; the UROP team usually makes presentations in classes.

Agnes also pointed out there was a very successful process of getting ACI related UROPs. Success rate is high this year, but has been below 50% in the past.

E. Dragomirescu asked about the process for ordering materials. She indicated that the new system results in considerable delays when we run out of material. We used to be able to buy small things directly. Now we have to pay for delivery too. The Dean will share this with S. Gandolfini.

E. Dragomirescu asked who would be liable if somebody got Covid-19 in an in-person classroom. The Dean suggested to contact Michel Labrosse to discuss these concerns.

For the Winter in-person courses will use the bi-modal infrastructure. Next year we will be back to class, with exceptions for pedagogical reasons. A small number of courses in the Winter could be changed from online to bi-modal.

The meeting ended at 10:20

Timothy C. Lethbridge

Vice-Dean (Governance)