

FACULTY OF SCIENCE
In-person Meeting of Faculty
24 January 2023
Robert Vogel Council Room (L232), Leacock Building

DOCUMENTS: S-22-15, S-22-16

Dean Lennox called the meeting to order at 3:00 p.m., and welcomed members to the fifth Faculty of Science meeting of the 2022-2023 academic year.

1. Adoption of Agenda

In Item # 6, there will be two Reports: (i) Science Undergraduate Society (SUS) Report and (ii) Dana-Kaye Matthews, SSMU, Special Researcher, Mental Health Initiatives

Prof. Blanchette **moved**, seconded by Prof. Fabry, that the amended Agenda be approved.

The motion carried.

2. Minutes of 6 December 2022 S-22-15

Prof. Fabry **moved**, seconded by Prof. Roulet, that the Minutes be approved.

The motion carried.

3. Business Arising from the Minutes

There was no business arising from the Minutes.

4. Report of CommiD4. New Course: MATH 527 D1/D2 Statistical Data Science Practicum AC-22-173

6 credits

MATH 527 is a two-semester course offering a unique experience to upper-level students in the B.A. and B.Sc. degrees. The course fills an important gap in the undergraduate and graduate Mathematics and Statistics programs. It will allow students to learn how to put their theoretical skills into practice and develop their teamwork and communication skills, which are crucial to students' future professional success.

Associate Dean Hundemer **moved**, seconded by Prof. Blanchette, that the course be adopted.

The motion carried.

Course Revisions:

MATH 335

ado4u.00420 Td()TjEc6352 ado4u.00c6352 a 6414C2 aTd()T EcM78.7 N6xZ5"TGDrj@

	Changes: course restrictions	
ENVR 401	Environmental Research 3 credits Changes: course restrictions	AC-22-159
ENVR 480	Topics in Environment 2 3 credits Changes: course restrictions	AC-22-160
ENVR 485	Readings in Environment 1 3 credits Changes: course description, course restrictions	AC-22-161
ENVR 490	Independent Study in Environment 3 credits Changes: course description, course restrictions	AC-22-162
ENVR 491	Independent Project in Environment 3 credits Changes: course Description, course restrictions	AC-22-163
ENVR 585	Readings in Environment 2 3 credits Changes: course description	AC-22-164

The reference to the MSE (formerly known as McGill School of Environment) in the above courses (except for ENVR 401) has been replaced with "ENVR" to reflect the newly renamed Bieler School of Environment. A program was removed from the restrictions in ENVR 401 because the course was no longer part of the program. The remaining changes are housekeeping in nature.

Associate Dean Hundemer **moved**

4 credits

The new course, COMP 511, represented the formalization of a currently existing Topics

6. **Pharmacology**

New Course:

PHAR 590

Advanced Research Methods in Pharmacology
3 credits

[AC-22-189](#)

PHAR 590 is a new advanced laboratory course lacking in the Pharmacology undergraduate and graduate curriculum. For some years, many students have asked for increased research experience, and PHAR 590 will fill the gap.

Associate Dean Hundemer **moved**, seconded by Prof. Perepichka, that the course be adopted.

The motion carried.

7. **Dean's Multidisciplinary U-5.8 (h9Da Tw 7.186H2 Tw 15.892 0 .9 (c)-0.9 (os)-r 10.02 1.2 (ved)J JT2 1 Tf0.152**

Grace Kiser

Grace has been appointed as Communications Officer in the Faculty of Science, replacing Fergus Grieve. Grace will be responsible for overseeing all aspects of the Faculty's communication strategies to promote the Faculty. Grace has over a decade of experience in strategic and scientific communications. More recently, Grace worked as a Communications Manager at the EU Joint Programme on Neurodegenerative Disease Research (JPND) and prior to that, she was a Content Researcher and Editor at Element AI, a comp

- x Prof. Christian Genest (Mathematics and Statistics) was awarded the 2023 CRM-Fields-PIMS Prize by The Centre de recherches mathématiques (CRM), the Fields Institute and the Pacific Institute for the Mathematical Sciences (PIMS)
- x Prof. Charles Gale (Physics) was awarded the 2022 CAP Medal for Lifetime Achievement in Physics by the Canadian Association of Physicists
- x Prof. Daryl Haggard (Physics) was awarded the 2022 CAP Herzberg Medal by the Canadian Association of Physicists
- x Prof. Martin Robillard (Computer Science) was named a Distinguished Member of the Association for Computing Machinery (ACM)
- x Prof. Andrew Gonzalez (Biology), Prof. Victoria Kaspi (Physics), Prof. Andrew Hendry (Biology), Prof. Bernhard Lehner (Geography), Prof. Graham MacDonald (Geography), Prof. Nahum Sonenberg (Biochemistry), and Prof. Jennifer Sunday (Biology) were made Clarivate Analytics' Highly Cited Researchers 2022 list.
- x Prof. Natalya Gomez (Earth & Planetary Sciences) earned the International Union of Geodesy and Geophysics Early Career Scientist Award
- x Prof. Blake Richards (Computer Science) won NSERC's Arthur B. McDonald Fellowship
- x Prof. Tomislav Friš (Chemistry) won NSERC's John C. Polanyi Award
- x Canadian Hydrogen Intensity Mapping Experiment (CHIME) team won NSERC's Brockhouse Canada Prize for Interdisciplinary Research in Science and Engineering
- x Prof. Alfonso Mucci (Earth & Planetary Sciences) was elected Fellow of the American Geophysical Union
- x Prof. Victoria Kaspi (Physics) received World Cultural Council's Albert Einstein World Award for Science
- x Prof. Daryl Haggard (Physics) and Prof. Graham Bell (Biology) received the Royal Society of Canada medals
- x Prof. Ehab Abouheif (Biology), Prof. Joel Kamnitzer (Mathematics & Statistics) and Prof. Doina Precup (Computer Science) were elected Fellows of the Royal Society of Canada
- x Prof. Nicolas Cowan (Physics and Earth & Planetary Sciences) joined the Royal Society of Canada's College of New Scholars, Artists and Scientists
- x Prof. Anna Weinberg (Psychology) was awarded the 2022 Early Career Impact Award from the Federation of Associations in Behavioral and Brain Sciences

6. Science Undergraduate Society (SUS) Report

(i) Joy Zhang, the SUS President reported on the following activities:

Planning is underway for the SUS election season, which is early this year, and the SUS Electoral Calendar will be finalized at the upcoming Legislative meeting. The SUS is also

preparing for a General Assembly on 22 February 2023 to bring some more student concerns to the forefront of policies. The Equity Commissioner will be providing training for departmental executives who could not attend the training during the 2022 Fall semester. Science Games happened earlier this month and was very successful, the first since 2020!

Regarding projects, a survey on Student Interest in Indigenous Support Initiatives is being circulated across the Faculty, and continuing to develop a plan for the financial overhaul and centralized banking, starting with amending the SUS Financial By-laws.

The SUS will continue to plan the annual formal SUS Gala on 17 February 2023. The Vice-President (External) continues to run the student bar, After Hours, bi-weekly. The Graduation Ball is being planned alongside the Arts Undergraduate Society. The SUS (Sustainability) and the SUS (Internal) Portfolios are also planning a cultural day alongside SSMU.

Dean Lennox thanked the SUS President, Joy Zhang, for the report.

(ii) Dana-Kaye Matthews, SSMU, Special Researcher, Mental Health Initiatives

Dean Lennox introduced Dana-Kaye Matthews, a special researcher for the Student Society of McGill University (SSMU) on Academic and Classroom Policy.

Dana-Kaye Matthews gave a PowerPoint presentation on academic wellness, classrooms, and academic policy. During the 2021-2022 academic year, SSMU issued a report on Academic Wellness. Her mandate is to collect information for the different undergraduate faculties and help achieve some of the goals in the Strategic Plan. The central theme should challenge the notion that academic rigour and wellness are necessarily diametrically opposing forces. One of the pathways that SSMU recognized as part of McGill's Mission Statement is "offering the best possible education" and looking at how faculty can promote academic wellness within the classrooms. What does that mean for professors, and how is that implemented? The aim is to get a snapshot of what that looks like for the different undergraduate faculties. She has developed a survey that can be distributed to faculty, after which the data will be collected and synthesized, and then she

(aligning with calls 44 and 52 of the Provost Task Force on Indigenous Studies and Indigenous Education). It aligns with a series of recent reports that show a rise in false or tenuous claims of indigenous identity in academia.

Dean Lennox thanked Associate Dean Nilson for her Report.

8. Provost's Action Plan to Address Anti-Black Racism (ABR)

Associate Dean Nilson gave the following Report:

(1) The new pilot project – The Faculty of Science Inclusive Teaching Initiative – is up and running this semester. This project is being run by Director Marcy Slapcoff and Dr. Diane Dechief from the Office of Science Education with support from TLS and the library. It is part of the Faculty's response to McGill's Action Plan to Address Anti-Black Racism (ABR Plan) and Strategic Equity, Diversity, and Inclusion Plan 2020-2025 (EDI Plan). It aligns with both plans' Student Experience pillar, and the goal articulated in the ABR Plan to "support the development of inclusive pedagogies and curricular approaches that foster the learning and development of our diverse community and a sense of belonging for all students, without interfering with the freedom of individual instructors to determine the content of their courses."

(2) Black History Month starts on 1 February 2023, and McGo o conteary23cea5l23cantrllloGilo espo

- x **Webpages for USRA (NSERC/SSHRC/CIHR):**
 - o The Facsci webpage for USRA is now updated to reflect the new programs. <https://www.mcgill.ca/science/research/undergraduate-research/nserc>
 - o