

**FACULTY OF SCIENCE  
Meeting of Faculty  
Tuesday, 13 November 2018  
Leacock Council Room - L232**

**ATTENDANCE:** As recorded in the Faculty Appendix Book

**DOCUMENTS:** S-18-15, S-18-16

Dean Lennox called the meeting to order at 3:00 p.m. and welcomed members to the Faculty of Science meeting.

**(1) Adoption of Agenda**

Prof. Perepichka **moved**, seconded by Prof. Roulet, that the Agenda be adopted.

**The motion carried.**

**(2) Minutes of 23 October 2018**

**S-18-15**

Prof. McKenzie **moved**, seconded by Prof. Fussmann, that the Minutes be approved.

**The motion carried.**

**(4) Business Arising from the Minutes**

**Enrolment, Item 6(b), Minutes of the Faculty of Science Meeting, 23 October 2018:**

Associate Dean Hundemer presented a table on the percentage of CEGEP students in the Faculty of Science and at McGill whose mother tongue is French.

**All McGill undergrads**

1. Language	Total	Percent
English	12740	49.3
French	4986	19.3
Other	8097	31.4
<b>Grand Total</b>	<b>25823</b>	

**Undergrads in Science**

1. Language	Total	Percent
English	2243	47.2
French	723	15.2
Other	1791	37.6
<b>Grand Total</b>	<b>4757</b>	

**All McGill undergrads from CEGEP**

1. Language	Total	Percent
English	3626	46.8
French	2365	30.5
Other	1755	22.7
<b>Grand Total</b>	<b>7746</b>	

**Undergrads from CEGEP in Science**

1. Language	Total	Percent
English	602	45.3
French	365	27.5
Other	362	27.2
<b>Grand Total</b>	<b>1329</b>	

**Percentage of CEGEP students among students whose mother tongue is French**

All McGill	47.4
Science	50.5

(5) **Reports of Committees**

a) Academic Committee **S-18-16**

**The following proposals were approved at the Academic Committee meeting held on 30 October 2018:**

**I. Dean's Multidisciplinary Undergraduate Research**

- Courses on Dean's Multidisciplinary Undergraduate Research List (DMURL) **AC-18-9**

Associate Dean Hundemer described the DMURL and said that on an annual basis the list is updated by Mr. Victor Chisholm, Undergraduate Research Officer in the Faculty of Science. Document AC-18-9 represents an updated list of courses eligible for the DMURL. The courses added to the list were MIMM 496D1/D2 and MIMM 497D1/D2. A new course, FSCI 396, Research Project in Science Teaching & Learning (3 credits), to be considered below, will be added once approved by Faculty and SCTP. Units should review the list to check for any courses that should be added or removed.

**II. New Course:**

Faculty of Science Office of Science Education  
FSCI 396                      Res Proj Sci Teaching&Learning                      **AC-18-13**  
3 credits

Associate Dean Hundemer said the proposed course, FSCI 396, will be very much in the spirit with other Science -396 undergraduate research courses. The intent is to add research projects on pedagogical issues. The course will be co-supervised by Associate Dean (Education) Western and, as always with undergraduate research courses, with a professor in the Faculty of Science.

Associate Dean Western said that FSCI 396 is meant to add another research option for students who are interested in pedagogy or creating new ways of understanding different fields in Science. Some examples of research topics are: research into topic-related misconceptions, course activity effectiveness, and research into, and application of, innovative teaching and learning strategies.

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

**The motion carried.**

**III. Course Revisions**

1. Chemistry  
CHEM 688      Progress Assessment  
Change in title                      **AC-18-10**  
3 credits
- CHEM 702      Progress Assessment 2  
Change in title                      **AC-18-11**  
0 credits

The two above-mentioned Chemistry graduate course titles were revised to reflect actual course content and purpose.

Associate Dean Hundemer **moved**, seconded by Associate Dean Western, that the above-mentioned course title changes be approved.

**The motion carried.**

2. Mathematics & Statistics  
MATH 240      Discrete Structures                      **AC-18-16**  
Changes: title, description

MATH 340	3 credits Discrete Mathematics Changes: title, description, restrictions 3 credits	<b>AC-18-17</b>
MATH 350	Honours Discrete Mathematics Changes: title, description, restrictions 3 credits	<b>AC-18-18</b>

Because the current course titles of the above-mentioned courses were misleading and inappropriate, new titles were proposed. Simultaneously, their course descriptions were updated to reflect current teaching for the past 15 years. Also, restrictions were revised in MATH 340 and MATH 350 due to a course retirement (MATH 343) in past years.

Associate Dean Hundemer **moved**, seconded by Prof. Stephens, that the above-mentioned changes be approved.

**The motion carried.**

MATH 357	Honours Statistics Change in corequisites 3 credits	<b>AC-18-19</b>
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The corequisite course, MATH 255, is being removed since it is a prerequisite to a previous course (MATH 356).

Associate Dean Hundemer **moved**, seconded by Prof. Stephens, that the change be approved.

**The motion carried.**

3. Earth & Planetary Sciences  
EPSC 231 Field School 1  
Changes: prerequisites, supplementary information  
3 credits **AC-18-24**

The prerequisites for EPSC 231 have been revised to reflect the course sequence in the programs in Earth & Planetary Sciences. Additionally, the course fee has been updated in the supplementary information.

Associate Dean Hundemer **moved**, seconded by Prof. McKenzie, that the changes be approved.

**The motion carried.**

EPSC 519	Isotopes in Earth & Env Sci Changes: title, description, prerequisites 3 credits	<b>AC-18-28</b>
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The proposed changes were warranted because a new instructor was teaching the course and the course description has been expanded. Also, the prerequisites and title have been updated accordingly.

Associate Dean Hundemer **moved**, seconded by Prof. McKenzie, that the changes be approved.

**The motion carried.**

4. Biology  
BIOL 495 Quantitative Biology Seminar 2 **AC-18-30**

Course retirement  
1 credit

BIOL 495 is being retired because BIOL 395, Quantitative Biology Seminar 1, is the important course for the joint and interdisciplinary biophysical programs. Therefore, a second course in Quantitative Biology is no longer needed.

Associate Dean Hundemer **moved**, seconded by Prof. Fussmann, that the retirement of BIOL 495 be approved.

**The motion carried.**

**IV. Program Revisions**

1. Chemistry  
- Minor Program in Chemistry

**AC-18-33**

The proposed course revisions to the Minor Program in Chemistry will now offer students Complementary courses, whereas previously there were none.

Associate Dean Hundemer **moved**, seconded by Prof. Perepichka, that the changes be approved.

**The motion carried.**

2. Computer Science  
- B. Eng.; Minor Program in Computer Science

**AC-18-12**

Changes to the Minor Program in Computer Science for Engineering students were made as a result of changes in some of the Engineering courses. Other changes to the Minor were housekeeping in nature.

Associate Dean Hundemer **moved**, seconded by Prof. Kemme, that the changes be approved.

**The motion carried.**

3. Geography  
B.A. & Sc. Program and *Option Name Change*:  
- Major Concentration in Geography; *Urban Studies Option*  
- Minor Concentration in Geography; *Urban Studies Option*

**AC-18-14**

**AC-18-15**

The proposed changes involve a new Option name for the Minor and Major Concentrations in Geography; Urban Studies Option. To provide more choices, additional Geography courses and a Sociology course were included in the Minor and Major Concentrations. Moreover, Geography courses have been rearranged to provide breadth.

Associate Dean Hundemer **moved**, seconded by Prof. Roulet, that the above-mentioned changes be approved.

**The motion carried.**

For information only:

- B.A. Program changes
- Honours in Geography; Urban Studies Option
  - Major Concentration in Geography; Urban Studies Option
  - Minor Concentration in Geography; Urban Studies Option

4. Physics  
- B. Eng.; Minor Program in Physics

**AC-18-23**

The Minor Program in Physics is intended for Engineering students. To avoid confusion, the revised program description will clearly specify that the Minor will be open to students in Honours Engineering Programs (i.e., Honours in Electrical Engineering and Honours in Mechanical Engineering).

Associate Dean Hundemer **moved**, seconded by Associate Dean Western, that the above-mentioned changes be approved.

**The motion carried.**

5. McGill School of Environment  
B.Sc. Program Changes:  
- Minor Program in Environment  
- Diploma in Environment

**AC-18-21**  
**AC-18-22**

The courses in the Suggested Course List (SCL) have been updated so that the SCL is identical for the Minor in Environment, the Diploma in Environment, and the B.A. – Minor Concentration in Environment; the latter is not for approval.

Associate Dean Hundemer **moved**, seconded by Prof. Roulet, that the above-mentioned changes be approved.

**The motion carried.**

For information – Documents Avail. Upon Request:  
Program Changes for B.A. & Other Students  
- Minor Concentration in Environment

**V. Proposed Course Evaluation Questions**

**AC-18-31**

Associate Dean Western gave some background information on the proposed shared questions for course evaluations. Following feedback she received from a previous Faculty of Science meeting (March 2017), the Academic Committee meeting (October 2018), and by email, the Academic Committee adopted the course questions (#4 to #10), in Document in AC-18-31.

It was suggested to quantify “timely fashion” in Question #5 (“My questions outside of class were answered in a timely fashion, considering class size.”)

Associate Dean Western **moved**, seconded by Prof. Fussmann, that the course evaluation questions (#4 to #10) in Document AC-18-31 be adopted.

**The motion carried.**

**(5) Dean's Business**

**a) Announcement:**

(i) On a Provostial initiative, Faculty positions will be open in the area of AI research. Five provostial licences were established to take advantage of federal and provincial government initiatives here in Montreal, Toronto, and Edmonton. Of the five licences, one was awarded to the School of Computer Science, the second licence will be shared with the Faculty of Engineering, and the third licence will be shared with the Faculty of Arts.

(ii) The Bellairs Research Institute was founded in 1954, and is a fantastic site in Barbados. This research field station is used for undergraduates to partake in the Barbados Field Study Semester and the Barbados Interdisciplinary Tropical Studies. In addition, it offers field courses, workshops, research projects, and conferences. After a Faculty review of its operations management, the Director of Administration, Maria Babiak, and the Senior HR Advisor, Tina Kafantaris, set up new operations management in May 2018. The new

manager is Kim King. Thanks to Maria's and Tina's efforts, the operations of the Institute will be revitalized.

(iii) The Gault Nature Reserve, a teaching and research facility located in Mont Saint-Hilaire, has been undergoing a change in management. McGill will be operating the entire Gault Nature Reserve site and the Nature Centre. As Director of the Gault Nature Reserve, Prof. Virginie Millien has been invaluable during this transitioning year. A new structure has been put in place effective November, 2018, when the Associate Director will be reporting to the Executive Committee. The Committee members are: Prof. Nigel Roulet (Geography), Prof. Frédéric Guichard (Biology), and Prof. Jeff McKenzie (Earth & Planetary Sciences).

(iv) Dean Lennox invited members to the Faculty of Science Holiday Party which will be held on **Thursday, 13 December 2018 from 4:00 p.m. to 6:30 p.m.** in the main dining room of the Faculty Club. All faculty, support staff and administrative staff are welcome to attend. He reminded members to R.S.V.P. by 30 November 2018, and he hoped that members will attend.

**(6) Reports of Director & Associate Deans**

- a) Director (Advising Services) Nicole Allard
- b) Associate Dean (Academic) Axel Hundemer
- c) Associate Dean (Graduate Education) Laura Nilson

There were no reports for the current meeting.

- d) Associate Dean (Education) Tamara Western

Associate Dean Western reminded members that TLS will be holding a symposium on assessment entitled "Beyond Grading: Effective Assessment Strategies for Better Learning". The symposium will take place on 7 December 2018.

- e) Associate Dean (Research) John Stix

Associate Dean Stix said that the CFI-10 calls for proposals were on course. Application information for CFI-11, 12 and 13, will be available in the near future, which means that the Faculty could plan long term.

**(8) Report on Actions of Senate**

**- Senate Meeting of 24 October 2018: Senator Jeffrey McKenzie**

General comments:

1) The Chair of Geography, Roulet, was unable to attend the meeting, so I took minutes for this council and am reporting as his last-minute replacement. Though I was mentally unprepared for taking minutes, I feel that I came out ahead in the exchange as Roulet will now be taking minutes at the Joint Senate-Board meeting tomorrow which is scheduled for four hours

2) Possibly the most notable highlight of the meeting was the absence of Principal Fortier and Senate being Chaired by Dean Nicell (Engineering). He brought engineering efficiency to the meeting and we had one of our shorter Senate meetings.

Memorial tributes were presented for Professors Peter Milner, Gordon Shore and Geoffrey Hendy.

VP-Research Martha Crago and Tina Wilson presented the 9th Annual Report on Research Misconduct at McGill University. The report presents cumulative numbers, and due to confidentiality rules, does not provide much detail. There was a slight increase, to 6, in the number of confirmed misconduct cases over the past year. There was an

interesting discussion about if researchers who are found guilty of misconduct should eventually 'outed', as in other countries.

Provost Manfredi presented the Annual Sustainability Report.

Mark Weinstein presented the Fiscal Year 2018 Annual Report on University Advancement. The University raised \$173 Million, of which greater than 63% were gifts of \$1 Million or more. Over the 2018 Fiscal Year, 17,000 people attended McGill Development Events, including 7,000 new attendees. There will be a large fundraising campaign for the bicentennial celebrations, which will kick off in 2019.

Prof. Zorychta, the Representative of Senate on the Board of Information Governors, presented the activities of the Board of Governors over the past year. The timeliest news was that the Board acknowledged Senate's Divestment motion, and CAMCR will relook at this issue and report back.

The meeting was adjourned at 4:08pm.

**(9) Members' Question Period**

There were no members' questions.

**(10) Other Business**

There being no other business, the meeting adjourned at 3:55 p.m.

**The motion carried.**

**Next Meeting: 4 December 2018**