

**FACULTY OF SCIENCE
ACADEMIC COMMITTEE**

Minutes of the meeting held on 15 March 2022 at 3:00 p.m. by Zoom Videoconferencing.

PRESENT: Associate Dean (Academic) Axel Hundemer, Peter Barry (Chief Academic Advisor); Professors Jennifer Bartz, Amy Blum, Huy Bui, Maxime Denis, Caroline Dufour, Benjamin Forest, Daryl Haggard, Barbara Hales, Greg Marczynski, Ana Nyzhnyk, Jeanne Paquette, Armel Kelome (in lieu of Johanna Neslehova), Kathy Roulet, Clark Verbrugge, Natalie Waters; Claire Braaten, Melissa Dunn, Samantha Gorle, Alexandra Mircescu, Yufeng Peng, Emaan Qazi; Josie D'Amico.

GUESTS: Professors Stephen Lomber, Sean McWatt, Djordje Romanic

DOCUMENTS: AC-21-82 to AC-21-107

Associate Dean Hundemer called the meeting to order at 3 p.m., and welcomed members to the sixth meeting of the Academic Committee.

1. Adoption of Agenda

Prof. Forest **moved**, seconded by Prof. Haggard, that the Agenda be adopted.

The motion carried.

2. Minutes of 15 February 2022

AC-21-82

Prof. Denis **moved**, seconded by Prof. Paquette, that the Minutes be approved.

The motion carried.

3. Business Arising from the Minutes

There was no business arising from the Minutes.

4. Physiology

New Course:

PHGY 525

Cortical Plasticity

3 credits

AC-21-98

Prof. Nyzhnyk introduced a new course, PHGY 525, in the Department of Physiology. PHGY 525 will cover an in-depth examination of cortical plasticity, or the ability of the brain to rearrange itself from a systems, cognitive neuroscience perspective. The course will be added as a Complementary course to three undergraduate programs in Physiology: Honours, Major, and the B.Sc. Liberal Science – Core Component in Physiology.

Prof. Nyzhnyk **moved**, seconded by Ms. Waters that the course be adopted.

The motion carried.

5. Atmospheric & Oceanic Sciences

New Course:
ATOC 517

Boundary Layer Meteorology
3 credits

AC-21-83

Prof. Dufour presented a new course, ATOC 517, about the atmospheric boundary, the layer between the free atmosphere and Earth's surface. The course will also describe their applications to urban environments, weather and climate forecasting, wind energy, and wind engineering sectors. ATOC 517 will be included as a Complementary course in: B.Sc. Minor in Atmospheric Science; Liberal program - Core Science Component Atmospheric and Oceanic Sciences; Major in Atmospheric Science; Major in Atmospheric Science and Physics; Honours in Atmospheric Science; and the Diploma in Meteorology.

Prof. Dufour **moved**, seconded by Prof. Denis, that the course be adopted.

The motion carried.

6. Biology
BIOL 331

Ecology/Behaviour Field Course
Changes: prerequisites, additional fee charges,
Supplementary Calendar information
3 credits

AC-21-84

Prof. Gerhold said that the proposed changes to BIOL 331 were to accurately reflect the course fees in the eCalendar and remove an error in one of the prerequisite courses.

Prof. Gerhold **moved**, seconded by Prof. Denis, that the changes be approved.

The motion carried.

7. Cognitive Science
- B.Sc. Minor in Cognitive Science

AC-21-85

Associate Dean Hundemer said that, in response to a request by the School of Computer Science, MATH 240 was included in the Minor Program in Cognitive Science to eliminate a hidden prerequisite in the Minor (COMP 251).

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

The motion carried.

8. Computer Science
COMP 251

Algorithms and Data Structures
Changes in prerequisites, corequisites
3 credits

AC-21-86

Prof. Verbrugge explained that the current corequisites (MATH 235 or MATH 240) had been changed to strict prerequisite requirements because students needed the essential mathematical tools to succeed in COMP 251.

Prof. Verbrugge **moved**, seconded by Prof. Forest, that the changes be approved.

The motion carried.

New Course:
COMP 370

Introduction to Data Science

AC-21-87

3 credits

Prof. Verbrugge described a new introduction to data science techniques course, COMP 370, which had been previously offered as a topics course for several years, and was well-received. COMP 370 is mainly about the ideas of data science, avoiding bias, scraping data, managing the data, and visualizing it.

Prof. Verbrugge **moved**, seconded by Ms. Waters, that the course be adopted.

The motion carried.

9. Mathematics & Statistics

MATH 338	History and Philosophy of Mathematics Changes in description, prerequisites 3 credits	AC-21-88
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Prof. Kelome said that the proposed changes to MATH 338 were due to (i) a new instructor teaching the course and (ii) the content of the course has changed to turn MATH 338 more into a math course. Prerequisites have been introduced to ensure that students have the necessary background and mathematical maturity.

Prof. Kelome **moved**, seconded by Prof. Forest, that the changes be approved.

The motion carried.

MATH 580	Advanced Partial Differential Equations 1 Change in title 4 credits	AC-21-89
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MATH 581	Advanced Partial Differential Equations 2 Change in title 4 credits	AC-21-90
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Prof. Kelome explained that the course title changes (MATH 580, MATH 581, and a previously approved title change, MATH 319) were to clarify the sequence of differential equations courses.

Prof. Kelome **moved**, seconded by Prof. Denis, that the above changes be approved.

The motion carried.

MATH 638	Partial Differential Equations 4 Course retirement 4 credits	AC-21-91
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The above course was being retired because it has not been taught for ten years, and the Department has no plans in offering the course in the near future.

Prof. Kelome **moved**, seconded by Prof. Denis, that the course retirement be approved.

The motion carried.

- B.Sc. Honours in Probability and Statistics		AC-21-92
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Prof. Kelome said that the above program revision removed an incorrect reference to MATH 203 as a Freshman Science course in the program outline, which led to confusion among students and advisors.

Prof. Kelome **moved**, seconded by Mr. Barry, that the changes be approved.

The motion carried.

- B.Sc. Minor in Statistics

AC-21-93

Prof. Kelome explained that a number of modifications were being made to the Minor Program in Statistics. The list of Complementary courses has been expanded to include newly created courses, and the program requirements were updated in line with other programs.

Prof. Kelome **moved**, seconded by Prof. Verbrugge, that the changes be approved.

The motion carried.

B.A. Program Changes (*For Information*):

- Honours in Probability and Statistics

10. Pathology

New Course:

PATH 396

Undergraduate Research Project in Pathology
3 credits

AC-21-94

Associate Dean Hundemer introduced a new undergraduate research project course, PATH 396, proposed by the Department of Pathology for the first time.

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

The motion carried.

11. Pharmacology & Therapeutics

Program Changes:

- Honours in Pharmacology

AC-21-95

- Major in Pharmacology

AC-21-96

- Minor in Pharmacology

AC-21-97

Prof. Hales said the proposed changes to the above Pharmacology programs were to: (i) include a previously approved course (PHAR 510) to the list of Complementary courses, (ii) require a statistics course, thereby making COMP 204 a Complementary course, and (iii) increase the number of 500-level Complementary courses from 6 credits to 12 for greater flexibility.

Prof. Hales **moved**, seconded by Prof. Forest, that the above program changes be approved.

The motion carried.

12. Psychology

PSYC 317

Genes and Behaviour
Changes in prerequisites, Supplemental
Calendar Information

AC-21-99

	3 credits	
PSYC 318	Behavioural Neuroscience 2 Changes in prerequisites 3 credits	AC-21-100
PSYC 351	Research Methods in Social Psychology Changes in title, prerequisites, restrictions 3 credits	AC-21-101
PSYC 352	Research Methods in Cognitive Science Changes: title, prerequisites, corequisites, restrictions 3 credits	AC-21-102
PSYC 353	Research Methods in Perception Changes in title, prerequisites, restrictions 3 credits	AC-21-103
PSYC 410	Special Topics in Neuropsychology Changes in prerequisites 3 credits	AC-21-104
PSYC 412	Child Development: Psychopathology Change in title 3 credits	AC-21-105
PSYC 470	Memory and Brain Changes in prerequisites 3 credits	AC-21-106
PSYC 491D1/D2	Advanced Study: Behavioural Disorders Changes in prerequisites 6 credits	AC-21-107

Prof. Bartz said the above course changes were similar. For multiple courses, a prerequisite course (PSYC 308) has been replaced with NSCI 201 since PSYC 308 was no longer offered. In addition, many course titles have been updated to satisfy the Ordre des psychologues du Québec requirements.

Prof. Bartz **moved**, seconded by Prof. Dufour, that the above changes be approved.

The motion carried.

13. Other Business

There being no further business, Prof. Denis **moved**, seconded by Prof. Kelome, that the meeting be adjourned at 3:45 p.m.

The motion carried.