Minutes of the meeting held on October 28, 2014 at 3:00 p.m. in Arts Council Room, Arts 160.

PRESENT: Dean Martin Grant (Chair), Associate Dean Tamara Western (Vice-Chair), Director Nicole Allard, Professors Thomas Bureau, Blaine Ditto, Axel Hundemer (in place of Vojkan Jaksic), Daniel Kirshbaum, Guy Moore, Ana Nyzhnyk, Kathy Roulet, Julie St-Pierre, Amy Szuchmacher Blum, Clark Verbrugge, Anthony Williams-Jones; Sara Holder; Simon Bilodeau, Vivian Ku, Rose Rutherford-Stone, Mae Yin-Liao (in place of Jeremy Goh); Geralda Bacaj, Josie D’Amico.

VISITORS: Mr. Peter Barry, Ms. Wendy Brett, Professor Monroe Cohen

REGRETS: Professors Barbara Hales, Michel Lapointe, Craig Mandato, Greg Marczynski; Kai Hong, Laura Lyon, Jessica Quaggin-Smith.

DOCUMENTS: AC-14-6 to AC-14-21

Dean Grant called the meeting to order at 3:00 p.m.

(1) ADOPTION OF AGENDA

- Item #10, SUS Activities to be the first item on the Agenda.
- Proposal to Modify M.D.,C.M. Prerequisites and MED-P Curriculum (Confidential Doc.), AC-14-21 to be discussed under Other Business, Item 11.

Prof. Williams-Jones moved, seconded by Prof. Moore, that the amended Agenda be adopted.

The motion carried.

(2) MINUTES OF THE MEETING OF 23 SEPTEMBER 2014

Prof. Williams-Jones moved, seconded by Prof. Ditto, that the Minutes be adopted.

The motion carried.

(3) BUSINESS ARISING FROM THE MINUTES

- Minute 108.7, B.Sc. Global Designation (AC-14-5)

203.1 Associate Dean Western said that at the meeting of 23 September 2014, a question had been asked about how internships and exchanges are validated.

203.2 Exchange Experiences: Exchange experiences are validated academically by transfer credits.

203.3 Internships: For both the one-term Industrial Practicum and the Internship Year, in order to obtain a Pass grade students must:
- Work for the mandatory minimum period of 14 weeks
- Obtain a satisfactory evaluation from your employer
- Submit an evaluation and a written report.
Associate Dean Western added that she would be presenting the B.Sc. Global at the APC meeting scheduled for 30 October 2014, for implementation for 2015.

(4) MINOR IN NEUROSCIENCE (PROGRAM CHANGES)  AC-14-7

204.1 Prof. Monroe Cohen, Director of the Minor Program in Neuroscience, described the changes to the Minor in Neuroscience. The principal changes were to reduce the number of required credits to 6, the two NSCI courses; and to increase the number of credits that must be taken outside the student's home department. Prof. Cohen also said that a note would be added to the proposal specifying that students who had not taken BIOL 200 and CHEM 212, would be required to take them as credits from the Complementary list of 200- and 300-level courses.

204.2 Director Allard moved, seconded by Associate Dean Western, that the changes be approved.

204.3 The representative from Psychology said that increasing the number of credits that must be taken outside a student's home department was a concern for Psychology students since it is often difficult to get into 400- and 500-level courses outside one's own department; as well, 400- and 500-level courses outside Psychology may well have prerequisites that Psychology students would not normally take. The increase in number of credits outside the home department would reduce Psychology students freedom of choice.

204.4 Dean Grant recommended that the proposal be adopted pending receipt of a consultation report from the Department of Psychology.

204.5 A member suggested that the proposal should be tabled instead.

204.6 Prof. Williams-Jones moved, seconded by Prof. Ditto, that the proposal be tabled to a future meeting.

The motion to table carried.

(5) MINOR COURSE CHANGES (for information)  AC-14-8

Associate Dean Western described the Minor Course Changes.

(6) PHYSICS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Changes</th>
<th>AC-14-9</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 447</td>
<td>Applications of Quantum Mech.</td>
<td>Changes: course number [from -436], title, restrictions 3 credits</td>
<td></td>
</tr>
</tbody>
</table>

206.1 The change in title reflects a more accurate description of the course content. The prerequisite for the course is PHYS 446, and the change in number is to give the course a higher number than its prerequisite.

Prof. Moore moved, seconded by Prof. Kirshbaum, that the changes be approved.

The motion carried.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Retirement</th>
<th>AC-14-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 580</td>
<td>Introduction to String Theory</td>
<td>Course retirement</td>
<td></td>
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</tbody>
</table>
The course is being retired because of its low enrolment and the difficulty of providing adequate prerequisites at the 500-level.

Prof. Moore moved, seconded by Prof. Ditto, that the retirement be approved.

The motion carried.

(7) ATMOSPHERIC & OCEANIC SCIENCES

New Course to be Included in List of Freshman Courses

ATOC 100 Extr.-Weath. & Clim.-Chg Phys. AC-14-11 3 credits

ATOC 100 is intended to provide a quantitative introduction to the topic, and it is hoped that the course will help to increase enrolment in the Department of Atmospheric & Oceanic Sciences.

Prof. Kirshbaum moved, seconded by Prof. Williams-Jones, that the course be adopted.

The motion carried.

(8) MATHEMATICS & STATISTICS

- Course renumberings: AC-14-12

    MATH 446 [from -377] Honours Number Theory (3 credits)
    MATH 454 [from -354] Honours Analysis 3 (3 credits)
    MATH 455 [from -355] Honours Analysis 4 (3 credits)
    MATH 456 [from -370] Honours Algebra 3 (3 credits)
    MATH 457 [from -371] Honours Algebra 4 (3 credits)
    MATH 458 [from -380] Honours Differential Geometry (3 credits)
    MATH 475 [from -375] Honours Partial Differential Equations (3 credits)

Prof. Hundemer said that the renumbering was an attempt to create more high-level Mathematics and Statistics courses, in order to mandate that students complete more higher-level courses before graduation. The Department felt that the courses were of sufficient difficulty to merit the 400-level designation.

Associate Dean Western said that there were several concerns over the renumbering: whether MATH 354 and MATH 370 should remain as 300-level courses, with MATH 355 and MATH 371 being raised to 400-level; and that MATH 377 has no prerequisites whereas the Major equivalent does have a prerequisite.

Regarding Honours Analysis 3 and 4, and Honours Algebra 3 and 4, very few students take these courses as compared to the Analysis and Algebra 1 and 2 courses, and in each case the 3 and 4 courses are on similar, sophisticated levels. Regarding MATH 377, the instructor has suggested Algebra 3 as a prerequisite; this will be brought to a future meeting.

Prof. Hundemer moved, seconded by Prof. Moore, that the renumberings be approved, except for MATH 377.
The motion carried.

208.5 On a different issue, Associate Dean Western pointed out that MATH 430 has no prerequisite, and MATH 488 has a 200-level prerequisite. Prof. Hundemer will look into this.

208.6 Associate Dean Western said she would like to remind members that Guidelines on Course Levels will be made readily available on the Science website.

The link is:

http://www.mcgill.ca/science/about/administration/help-minerva-course-proposal-revision

208.7 Associate Dean Western added that other departments, in particular Physics, should consider whether some of their courses require prerequisites.

- B.Sc. Major in Mathematics (Program Changes) AC-14-13

208.8 Prof. Hundemer said that the change required students to take at least 6 credits at the 400-level and above.

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

The motion carried.

208.9 Associate Dean Western said that now Mathematics & Statistics required students in all programs to take six credits at the 400-level and higher, the only remaining department without this requirement is Chemistry.

208.10 The Chemistry representative said that her department is currently working on the issue.

(9) COMPUTER SCIENCE

B.Sc. Program Revisions:
- Major in Computer Science AC-14-14
- Honours in Computer Science AC-14-15
- Major in Software Engineering AC-14-16
- Honours in Software Engineering AC-14-17
- Liberal Program: Core Science Component in Software Engr. AC-14-18

209.1 Prof. Verbrugge said the changes were the result of the introduction of the new course, ECSE 539, Software Language Engineering, which would be of interest to students in all the above programs.

Prof. Verbrugge moved, seconded by Prof. Kirshbaum, that the above changes be approved.

The motion carried.

B.A. & Sc. Program Revision:
- Major Concentration in Software Engineering AC-14-19
209.10 Again, the change was the result of the introduction of ECSE 539.

209.11 Prof. Verbrugge moved, seconded by Associate Dean Western, that the changes be approved, pending approval by the B.A. & Sc. Program Administration Committee.

The motion carried.

Secretary’s Note: At its meeting of 31 October 2014, the B.A. & Sc. Program Administration Committee approved the Major Concentration in Software Engineering.

B.A. Program Revision (for information):
- Major Concentration in Software Engineering

10) SCIENCE UNDERGRADUATE SOCIETY (SUS) ACTIVITIES AC-14-20

210.1 On behalf of Jeremy Goh, V.-P. (Academic), Mae Yin-Liao V.-P. (Communications), reported on the activities of SUS, and read document #AC-14-20.

"The Science Undergraduate Society has made significant progress across all of its portfolios. Currently, we are in the midst of our Social Sustainability Week; an annual charity fundraiser. This year, we decided to support AMI Quebec, an organization centered on mental health awareness. Our internal portfolio has begun planning our annual inter-departmental competition, Science Games, which will take place in January. In addition, our VP Academic has been hard at work to set up our annual graduate school fair, which will take place on November 5th. We have just appointed a Science Senator in time for our first General Assembly on the same date. Our VP Communications has been sitting on a committee for repurposing the Health Sciences Library and our Executive Revenue Officer has been securing various sponsorships, allowing us to fund our activities and services. The SUS has also been monitoring the progress of our constituents/departments, all of whom have been making spectacular progress and have done a fantastic job of collaborating with each other on various events. Our successes and failures are shared with each other at our bimonthly GC meetings, where we are able to share valuable information and vote on important matters with all departments present."

210.2 Dean Grant pointed out that the Health Sciences Library had previously been for the exclusive use of Science students, and that students doing a B.Sc. in the biomedical departments were actually Science students.

Dean Grant thanked Ms. Yin-Liao for the announcements.

11) OTHER BUSINESS
- Proposal to Modify M.D., C.M. Prerequisites and MED-P Curriculum (Confidential Doc.) AC-14-21

211.1 Director Allard explained the proposed changes. Regarding the MED-P Curriculum, students are already required to take BIOL 200 and BIOL 201, and almost all take PHGY 209 and PHGY 210. Many also take BIOL 202, and there is just room in this course for the remainder of the MED-P students to take it, although the course would then be at capacity. The concern would be for the
requirement for an introductory statistics course, both in terms of course capacity and room capacity.

211.2 Regarding the M.D.,C.M. prerequisites, which would relate to students with a degree applying to Medicine, the additional prerequisites described would result in great strain for BIOL 200, BIOL 201, PHGY 209/210, and a statistics course. Director Allard said that this was why she was bringing the issue to the Academic Committee, and she asked members to refer the matter to their units.

211.3 Director Allard said that the Faculty of Medicine felt that introducing the additional prerequisites would result in better performance by medical students. However, a member queried this, saying that students with a degree in the physical sciences could perform equally well in medical school as those with a biological background.

211.4 Dean Grant said that it was likely that any student who applied to medical school would already have the courses in question, meaning that the new prerequisites would not increase strain on the courses. Director Allard said she would enquire of the Faculty of Medicine as to how many applicants did not have the courses.

Dean Grant thanked Director Allard for bringing the issue to the Academic Committee.

There being no further business, the meeting adjourned at 4:00 p.m.