

**FACULTY OF SCIENCE  
ACADEMIC COMMITTEE**

Minutes of the meeting held on March 23, 2010, at 3:00 p.m. in Arts Council Room, Arts 160.

**PRESENT:** Dean Grant (Chair), Associate Dean Hendren (Vice-Chair), N. Allard; Professors F. Bedford, L. Berrang Ford (in place of J. Unruh,) F. Fabry, B. Hales, A. Hundemer, R. Levine, B. Nagar, P. Panangaden, G. O'Driscoll, K. Ragan (in place of A. Clerk), D. Ronis, K. Roulet, A. Wechsler; L. Houle; A. Dafoe, V. Khan; J. D'Amico. M. Yalaoui.

**REGRETS:** Professors G. Marczynski, B. Wing; A. Ashraf, A. Bezbora, J. Kanji, E. Lee, M. Smaoui; Associate Dean Hendershot.

**DOCUMENTS:** AC-09-68 to AC-09-80

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

**(1) ADOPTION OF AGENDA**

Prof. Panangaden **moved**, seconded by Prof. Bedford, that the Agenda be adopted.

**The motion carried.**

**(2) MINUTES OF JANUARY 26, 2010 AC-09-68**

Prof. Bedford **moved**, seconded by Prof. Hundemer, that the Minutes be approved.

**The motion carried.**

**(3) BUSINESS ARISING FROM THE MINUTES**

There was no business arising from the Minutes.

**(4) REPORT ON MINOR COURSE CHANGES AC-09-69  
(for information)**

Associate Dean Hendren outlined the Report on Minor Course Changes.

**(5) MINOR IN EDUCATION FOR SCIENCE STUDENTS AC-09-70**

**705.1** Associate Dean Hendren said that the change was being made because the Faculty of Education had introduced a new core course, EDEC 249, Global Education and Social Justice in Education's programs. This course was being added to the Minor as a Complementary Course.

Associate Dean Hendren **moved**, seconded by Prof. Wechsler, that the changes be approved.

**The motion carried.**

**(6) GEOGRAPHY****New Course:**

GEOG 291

Independ Short Proj - Geog  
1 credit**AC-09-71**

**706.1** Prof. Berrang Ford explained that the Department of Geography had been asked to introduce a one-credit independent short project course.

**706.2** There was some discussion, during which several points were raised:

- That some units have more than one reader for a project report
- That the course should be restricted to students in the Geography Liberal, Major and Honours programs
- That perhaps there should be a prerequisite course to GEOG 291, to prevent it being an orphan course

**706.3** It was agreed that the Restrictions should read:

*"Restricted to students enrolled in the Geography Liberal, Major, and Honours programs."*

**706.4** It was further agreed that Prof. Berrang Ford would take the course back to the Geography Department to discuss the possibility of adding a prerequisite course.

Prof. Berrang Ford **moved**, seconded by Mr. Houle, that the course be adopted with the above provisos.

**The motion carried.**

**Secretary's Note:** *In later consultation with Prof. Berrang Ford, it was agreed that the Restrictions and Prerequisites would read:*

***Restricted to students enrolled in the Geography Core Science Component, Major, Major Concentration and Honours programs. Instructor (supervisor) approval required.***

***Prerequisites: GEOG 201 and one of: GEOG 203, GEOG 210, GEOG 216, GEOG 217, GEOG 272.***

**(7) MATHEMATICS & STATISTICS**

MATH 317

Numerical Analysis  
Changes in description, prerequisites  
3 credits**AC-09-72**

MATH 387

Honours in Numerical Analysis  
Change in description  
3 credits**AC-09-73**

Prof. Hundemer **moved**, seconded by Prof. Panangaden, that the above changes be approved.

**The motion carried.**

MATH 447

Intro. to Stochastic Processes  
Changes in title, description & restriction  
3 credits**AC-09-74**

**New Course:**

MATH 547

Stochastic Processes  
4 credits**AC-09-75**

- 707.1** Prof. Hundemer explained that with the creation of the new course MATH 547 for Honours students, changes to the title, description and restriction were required for MATH 447, which had previously served both Honours and non-Honours students.
- 707.2** After a lengthy discussion, Dean Grant suggested that Prof. Hundemer ask the Department of Mathematics & Statistics to reconsider the titles of MATH 447 and MATH 547 with a view to (1) clearly distinguishing the two courses, (2) providing an accurate representation of the content of the courses.
- 707.3** Prof. Hundemer **moved**, seconded by Prof. Ronis, that the changes to MATH 447 and the new course MATH 547 be approved, taking account of the above recommendation.

**The motion carried.**

**Secretary's Note:** *The course titles for MATH 447 and MATH 547 given above were suggested by the Department of Mathematics & Statistics, and approved by Associate Dean Hendren.*

**Program Changes:**

- **Honours in Applied Mathematics** **AC-09-76**
- **Honours in Probability and Statistics** **AC-09-77**
- **Honours in Mathematics** **AC-09-78**

- 707.4** Prof. Hundemer explained that the changes to the three programs were the result of the introduction of MATH 547, with several additional changes to the Honours in Probability and Statistics program.
- 707.5** In response to a member, Prof. Hundemer said he would check whether any Joint Honours programs needed to be modified as a result of the creation of MATH 547.
- Prof. Hundemer **moved**, seconded by Prof. Panangaden, that the changes be approved.

**The motion carried.****(8) MINOR IN TECHNOLOGICAL ENTREPRENEURSHIP FOR SCIENCE STUDENTS**

- 708.1** Associate Dean Hendren said that the Faculty had recently been informed that half of the courses in the Minor had been retired by the Faculty of Management. The Faculty of Management was no longer interested in offering the Minor. Associate Dean Hendren said she would like to receive opinions from members about the usefulness of the Minor, as well as suggestions for possible courses that could be incorporated in a re-established Minor.
- 708.2** Courses in Intellectual Property (IP) and Drug Design were suggested.
- 708.3** Dean Grant asked members to take the idea of the Minor back to their units for further feedback at the next Academic Committee meeting, including suggestions for more possible courses.
- 708.4** Associate Dean Hendren will look into the Faculty of Engineering's equivalent of the Minor to obtain information on it.

**(9) ORPHAN COURSES****AC-09-80**

**709.1** Dean Grant reminded members that orphan courses were non-general interest courses with no prerequisites, and not themselves prerequisites for other courses.

**709.2 Results of Academic Committee Meeting of March 23, 2010 RE Orphan Courses****Note:**

Not included below are:

- (1) 500-level courses, since they are restricted to U3 or graduate students and since permission of instructor is normally required.
- (2) Research project, independent studies, special topics, and 400-level Honours courses, since it is assumed that the student has sufficient background.
- (3) Courses for which a prerequisite, permission of instructor, or some other fix will be proposed by units.
- (4) BIOL 115 and BIOL 210, which are special cases. BIOL 115 is an overview of biology for Psychology students. BIOL 210 is meant to stand alone and is part of the Science for Arts Students Program.

**ANATOMY & CELL BIOLOGY**

ANAT 214 Prerequisites: BIOL 112 or CEGEP equivalent. ANAT 214 will be made a prerequisite for ANAT 381.

ANAT 261 Prerequisites: BIOL 112 or CEGEP equivalent. **ALREADY** ANAT 261 is a prerequisite for ANAT 322 and ANAT 381 (both listed in Calendar) so ANAT 261 was never an orphan course.

ANAT 315 **ALREADY** restricted to students in Physical and Occupational Therapy (service course), and to Honours students in Anatomy & Cell Biology with permission of instructor, so ANAT 315 was never an orphan course.

ANAT 321 Prerequisites: One of BIOL 201, NSCI 200, PHGY 209, PSYC 211, or permission of instructor.

**ATMOSPHERIC & OCEANIC SCIENCES**

ATOC/CHEM 219 Prerequisites should specify freshman Chemistry, Physics, Mathematics, or CEGEP equivalents.

**CHEMISTRY**

CHEM 233 Course for Engineering students. Chemistry will consult with Engineering to see if CHEM 110 or CHEM 120 should be added as prerequisite.

**EARTH & PLANETARY SCIENCES**

EPSC 334 The Department will submit a fix to the next Academic Committee meeting.

**MATHEMATICS & STATISTICS**

MATH 318      Should be changed to a 200-level course. Then prerequisites could be a freshman-level or CEGEP-level mathematics.

MATH 338      Should be changed to 200-level, and have a calculus prerequisite.

### **PHYSICS**

PHYS 357      Prerequisites: Physics U1 Honours Required Courses.

PHYS 434      Physics will provide prerequisite(s).

### **(10) For Information Only:**

#### **- Minor in Chemistry (*For Engineering Students*)**

**710.1**            Associate Dean Hendren said that the changes to the Minor for Engineering students were basically housekeeping changes.

### **(11) OTHER BUSINESS**

There being no other business, the meeting adjourned at 4:40 p.m.