

MEMORANDUM

TO: Ms Karen Roche
University Secretary

FROM: Dr. Richard Maundrell
Acting Chair, Senate Undergraduate Studies Committee

SUBJECT: Report of Senate Undergraduate Studies Committee

DATE: 5February 2013 (for February 15, 2013 Senate Meeting)

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A. CURRICULUM/CALENDAR CHANGES REFERRED FROM SENATE MEETING #7-2012 OF OCTOBER 19, 2012, ITEM 5

The Senate Undergraduate Studies Committee met on January 17 and 31, 2013 to review outstanding curriculum changes referred from the October 19, 2012 Senate meeting and makes the following recommendations:

Faculty of Science and Environmental Studies

- (a) Biology 4101 (2012-SCI-056)(2012-SCI-069)**
- (b) Addition and rewording of Notes relevant to Biology undergraduate programs (2013-2014)**

The Committee forwarded these two items to the Senate Academic Committee for their consideration. It should be noted that both items contain duplication of a regulation revision (the Note below the HBSc (Biology Major) program), and therefore, do not require a recommendation from S USC.

- (c) Biology Minor Program (2012-SCI-057)**

The Committee recommends the Minor in Biology, with editorial revisions. The program description would read:

Biology Minor Program

Students in a four-year program may declare a Minor in Biology. The Minor Program requires an overall average of 60% in four full course equivalents including:

- (a) Biology 1110 and 1130
- (b) one FCE in Biology at the second year level
- (c) Two FCEs in Biology at the third or fourth year level

Note:

Only one half-course from Special Topics courses such as BIOL 3990 and BIOL 3991 may count towards the Minor in Biology.

Students enrolled in the Applied Bio-Molecular Science, Bioinformatics, Biology and Chemistry, Environmental Science (Biology), Natural Science and Water Resource Science degree programs are ineligible for a Minor in Biology.

B. CURRICULUM/CALENDAR CHANGES REFERRED FROM SENATE MEETING #8-2012 OF NOVEMBER 23, 2012, ITEM 4

The Senate Undergraduate Studies Committee met on January 17, 2013 to review outstanding curriculum changes referred from the November 23, 2012 Senate meeting and makes the following recommendations:

Faculty of Social Sciences and Humanities

(a) New Courses Part II (2012-SOC-083) (HIST)

The Committee recommends that Senate approve the proposed new History courses (Part II) with revisions and clarifications. The prerequisites for the new third-year courses will be "Two FCEs in History or permission of the Chair of the Department of History". The restrictive Notes for HIST 3316 and HIST 3160 will clarify "with topic title" instead of "entitled". The new courses will be numbered:

- History 2115 – Germany, 19th Century
- History 2116 – Germany, 20th Century
- History 3160 – The Holocaust
- History 3316 – Canadian Business History
- History 3715 – History in Frame – Events to 1900
- History 3716 – History in Frame – Events since 1900

Faculty of Science and Environmental Studies

(a) GEOG 3253 (2012-SCI-092)

Subsequent to its January report, the Committee was informed that the item has been withdrawn and was resubmitted as separate items for referral (also on the January Senate Agenda – 2012-SCI-163, 2012-SCI-164, 2012-SCI-300). See Section C. below.

(b) Chemistry 1210 (2012-SCI-093)

The Committee recommends approval of the revision in offering hour of instruction, with the clarification that the start term will be fall 2013.

(c) Chemistry 4111 (2012-SCI-094)

With the correction that there are three separate courses, CHEM 4111, 4131 (2012-SCI-097), and 4901 (2012-SCI-095), submitted in this proposal for a new prerequisite, the Committee recommends that Senate approve the proposal with revisions and a clarification that the start term will be fall 2013. For Chemistry 4131 the proposed prerequisite will remain; however, for Chemistry 4111 and 4901, the information will be provided in a restrictive Note rather than a prerequisite. The Note will be "Open only to candidates for an Honours degree in Chemistry in their fourth year who have a 70% (B) average in their Chemistry courses, except with permission of the Chair of the Department".

C. CURRICULUM/CALENDAR CHANGES REFERRED FROM SENATE MEETING #1-2013 OF JANUARY 18, 2013, ITEM 4

The Senate Undergraduate Studies Committee met on January 24 and 31, 2013 to start to review curriculum changes referred from the January 18, 2013 Senate meeting and makes the following recommendations:

1. FACULTY OF SCIENCE AND ENVIRONMENTAL STUDIES

(a) Title & Description Change for GEOG 3671 (2012-SCI-163)

The Committee recommends approval of the title and description change of GEOG 3671 with revisions and clarifications. The Start Term for the new versions will be fall 2013 and the title should be changed for all three cross-calendared courses. The "parent" department is Geography, the course will

continue to be cross-listed with ANTH 3671 and NORT 3671, and those course descriptions will remain as currently calendared.

(b) Removal of Restrictive Note for GEOG 3253 (2012-SCI-300)

The Committee recommends that Senate approve the removal of the restrictive Note and removal of GEOG 2251 in the prerequisite of GEOG 3253.

(c) Title & Description Change for ANTH 3671 (2012-SCI-164)

The Committee recommends approval of this item, but as noted for GEOG 3671 above, the start term will be fall 2013 and the course description for ANTH 3671 will remain as currently calendared.

(d) GEOL 2318 Requirement First Aid Course (2012-SCI-165)

(e) GEOL 4161 First Aid Certificate Requirement (2012-SCI-166)

The Committee recommends that Senate approve the proposals for GEOL 2318 and 4161, effective for fall 2013, with revisions. The "General Regulations" information should be moved to the Department of Geology Academic Regulations section of the Calendar, and the sentence starting "Students are required to complete the St. John Ambulance Standard First Aid course..." should be moved to the Restrictive Note section.

(f) GEOG 3313 Cross-listed with ENST 3313 (2012-SCI-166)

The Committee recommends that Senate approve the cross-calendaring of GEOG 3313 with a new Environmental Studies course, with revisions. The Start Term for both courses will be Fall 2013, the "parent" department is Geography, and the cross-listed course will be numbered Environmental Studies 3314, with its own separate course description.

(g) MATH 3050 Prerequisites (2012-SCI-168)

The Committee recommends approval of the change in prerequisite with the clarification that the Start Term is fall 2013.

(h) Updating BSc (Math & Physics Majors) (2012-SCI-169)

The Committee recommends that Senate approve the program revisions with clarifications that the Start Term is fall 2013 and the standard calendar wording will be used for the "half-course" elective.

(i) Updating MATH 3333 Prerequisite (2012-SCI-170)

The Committee recommends that Senate approve the revised prerequisite for MATH 3333 with clarifications that the Start Term is fall 2013 and the course, MATH 2331, has been previously renumbered as MATH 3332.

(j) Standardizing BABEd and BScBEEd MATH Programs (2012-SCI-388)

The Committee recommends that Senate approve the proposed revisions to the six concurrent bachelor's degree programs in Mathematics, with revisions and clarifications. In the First Year (b) of the BABEd and BScBEEd at the P/J and J/I levels, the Group I or Group II wording will be removed, so that the one FCE in English is required; however, in the First Year of the BABEd and BScBEEd at the I/S level, students may choose either one FCE in English or one FCE from Group I or II (as described in the BA and BSc (Mathematics Major) degrees). The description of Education Core Courses will be adjusted to include the requirements in each year level of the program description, rather than pointing to another page. The wrong proposed program description was provided for the BScBEEd (Mathematics Major) J/I. Attachment #1 includes the correct version of the BScBEEd (Mathematics Major) J/I and the full program requirements of the

Third and Fourth Years of the six programs (that were cut off in the proposal on the Senate Agenda).

(k) Physics 1070 (2012-2013-SCI-457)

The Committee recommends approval of the proposed revisions in title and description for PHYS 1070, with associated program changes. The title and offering hours for PHYS 1070 will also be revised in the First Year, Fall Term of the program descriptions for the BEng (Electrical Engineering) and BEng (Software Engineering).

(l) Physics 3371 (2012-2013-SCI-458)

The Committee recommends that Senate approve the revisions in title and course description for PHYS 3371.

(m) Physics 4412 (2012-2013-SCI-459)

The Committee recommends approval of the revised title and course description for PHYS 4412, with clarification that although an older version had been chosen as the "Current Version", the course description had not changed since then.

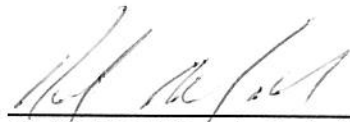
D. OUTSTANDING ITEMS

In addition to items referred from the January 18, 2013 Senate meeting, the following items referred from previous Senate meetings remain outstanding:

1. Calendar Changes Referred from Senate Meeting #8-2012 of November 23, 2012, item 4

Faculty of Social Sciences and Humanities

- (a) Third Year Prerequisite Change (2012-SOC-075) (HIST)**
- (b) New NORT Course (2012-SOC-073)**
- (c) Outdoor Recreation (2012-SOC-082)**
- (d) Add a Second Year Course Sociology (2013-2014)**



Dr. Richard Maundrell, Acting Chair

RM/ma

BABEd AND BSCBEd (MATHEMATICS MAJOR)

1. BA, BEd (Mathematics Major) P/J

Third Year:

- (a) One FCE in Mathematics at the third or fourth year level
- (b) One half-course in Music or Visual Arts (Visual Arts 0510 recommended)
- (c) One half-course chosen from Group I or Group II, excluding Mathematics
- (d) One FCE elective
- (e) One FCE in Science, excluding Mathematics (General Science 1000 recommended). See Concurrent Bachelor of Education, Concurrent Content Regulations #1, regarding eligible Science courses.
- (f) Education 2010 (0.5 FCE)
- (g) Two Education electives (see Electives in the Department of Undergraduate Studies in Education Courses list)* (.25 FCE x2 =0.5 FCE)

*Education 3239 may be taken for credit more than once if the topics are different.

Note: Concurrent Education students should check the timetable for non-Professional Year course offerings.

Fourth Year (Professional Year):

- (a) Core:
 - (i) Education 4417, 4418 and 4470 (.25 FCE x 2 + 0.5 FCE x 1 = .75 FCE)
 - (ii) Education 4412, 4413, 4414, 4416 (.25 FCE x 4 = 1 FCE)
 - (b) Curriculum and Instruction in Primary-Junior Education:
 - (i) Education 4012 and 4050 (0.5 FCE x 2 = 1 FCE)
 - (ii) Education 3013 (.25 FCE)
 - (iii) Education 4013, 4014, 4015, 4016, 4017, 4018 (.25 FCE x 6 = 1.5 FCEs)
 - (iv) One Education .25 FCE elective (see Electives in the Department of Undergraduate Studies in Education Courses list)*
 - (c) Student Teaching:
 - (i) Education 4499 (0.5 FCE)
- *Education 3239 and 3259 may be taken for credit more than once if the topics are different

2. BSc, BEd (Mathematics Major) P/J

Third Year:

- (a) One FCE in Mathematics at the third or fourth year level
- (b) One FCE in Science
- (c) Two FCE electives
- (d) Education 2010 (0.5 FCE)
- (e) Two Education electives (see Electives in the Department of Undergraduate Studies in Education Courses list)* (.25 FCE x2 =0.5 FCE)

*Education 3239 may be taken for credit more than once if the topics are different.

Note: Concurrent Education students should check the timetable for non-Professional Year course offerings.

Fourth Year (Professional Year):

- (a) Core:
 - (i) Education 4417, 4418 and 4470 (.25 FCE x 2 + 0.5 FCE x 1 = .75 FCE)
 - (ii) Education 4412, 4413, 4414, 4416 (.25 FCE x 4 = 1 FCE)
- (b) Curriculum and Instruction in Primary-Junior Education:

- (i) Education 4012 and 4050 (0.5 FCE x 2 = 1 FCE)
 - (ii) Education 3013 (.25 FCE)
 - (iii) Education 4013, 4014, 4015, 4016, 4017, 4018 (.25 FCE x 6 = 1.5 FCEs)
 - (iv) One Education .25 FCE elective (see Electives in the Department of Undergraduate Studies in Education Courses list)*
 - (c) Student Teaching:
 - (i) Education 4499 (0.5 FCE)
- *Education 3239 and 3259 may be taken for credit more than once if the topics are different

3. BA, BEd (Mathematics Major) J/I

Third Year:

- (a) One FCE in Mathematics at the third or fourth year level
- (b) One half-course in Music or Visual Arts (Visual Arts 0510 recommended)
- (c) One half-course elective chosen from Group I or Group II, excluding Mathematics
- (d) One FCE elective
- (e) One FCE in Science, excluding Mathematics (General Science 1000 recommended). See Concurrent Bachelor of Education, Concurrent Content Regulations #1, regarding eligible Science courses.
- (f) Education 2011 (0.5 FCE)
- (g) Two Education electives (see Electives in the Department of Undergraduate Studies in Education Courses list)* (.25 FCE x 2 = 0.5 FCE)

*Education 3239 may be taken for credit more than once if the topics are different.

Note: Concurrent Education students should check the timetable for non-Professional Year course offerings.

Fourth Year (Professional Year):

- (a) Core:
 - (i) Education 4417, 4418 and 4470 (.25 FCE x 2 + 0.5 FCE x 1 = .75 FCE)
 - (ii) Education 4412, 4413, 4414, 4416 (.25 FCE x 4 = 1 FCE)
 - (b) Curriculum and Instruction in Junior-Intermediate Education:
 - (i) Education 4112 and 4151 (0.5 FCE x 2 = 1 FCE)
 - (ii) Education 4113, 4114, 4115, 4116, 4117, 4118 (.25 FCE x 6 = 1.5 FCEs)
 - (iii) One Curriculum and Instruction course (.25 FCE) in teaching field selected from: Education 4212, 4214, 4215, 4216, 4217, 4218, 4231, 4232, 4233, 4234, 4235, 4239
 - (iv) One Education .25 FCE elective (see Electives in the Department of Undergraduate Studies in Education Courses list)*
 - (c) Student Teaching:
 - (i) Education 4499 (0.5 FCE)
- *Education 3239 and 3259 may be taken for credit more than once if the topics are different

4. BSc, BEd (Mathematics Major) J/I

Four Year program

A cumulative average of 65% in all courses is required. See Department of Undergraduate Studies in Education, Academic Regulation #2, regarding the average in the major.

Students must choose a teachable subject. See Department of Undergraduate Studies in Education, Levels and Teachables.

First Year:

- (a) Mathematics 1171, 1172, 1271 and 1272
- (b) One FCE from English 1011, 1031, 1111, 1112 (it is recommended that at least one be from 1011, 1031 and that at least one be from 1111, 1112)

(c) Two FCEs chosen from Biology 1110/1130, Chemistry 1110/1130, Computer Science 1411/1431, Geography 1120, Geology 1110/1130, Physics 1101

Second Year:

- (a) Mathematics 2111, 2131, 2255, 2275
- (b) One FCE in Science
- (c) One half-course in Music or Visual Arts (Visual Arts 0510 recommended)
- (d) One half-course elective
- (e) Education 1499 and 2399 (0.5 FCE x 2 = 1 FCE)

Third Year:

- (a) One FCE in Mathematics at the third or fourth year level
- (b) One FCE in Science
- (c) Two FCE electives
- (d) Education 2011 (0.5 FCE)
- (e) Two Education electives (see Electives in the Department of Undergraduate Studies in Education Courses list)* (.25 FCE x 2 = 0.5 FCE)

*Education 3239 may be taken for credit more than once if the topics are different.

Note: Concurrent Education students should check the timetable for non-Professional Year course offerings.

Fourth Year (Professional Year):

- (a) Core:
 - (i) Education 4417, 4418 and 4470 (.25 FCE x 2 + 0.5 FCE x 1 = .75 FCE)
 - (ii) Education 4412, 4413, 4414, 4416 (.25 FCE x 4 = 1 FCE)
- (b) Curriculum and Instruction in Junior-Intermediate Education:
 - (i) Education 4112 and 4151 (0.5 FCE x 2 = 1 FCE)
 - (ii) Education 4113, 4114, 4115, 4116, 4117, 4118 (.25 FCE x 6 = 1.5 FCEs)
 - (iii) One Curriculum and Instruction course (.25 FCE) in teaching field selected from: Education 4212, 4214, 4215, 4216, 4217, 4218, 4231, 4232, 4233, 4234, 4235, 4239
 - (iv) One Education .25 FCE elective (see Electives in the Department of Undergraduate Studies in Education Courses list)*
- (c) Student Teaching:
 - (i) Education 4499 (0.5 FCE)

*Education 3239 and 3259 may be taken for credit more than once if the topics are different

5. BA, BEd (Mathematics Major) I/S

Third Year:

- (a) One FCE in Mathematics at the third or fourth year level
- (b) One FCE elective in second teaching field with at least one half-course at the third or fourth year level
- (c) Two FCE electives
- (d) Four Education electives (Education 2011 (0.5 FCE) recommended) (see Electives in the Department of Undergraduate Studies in Education Courses list)* (.25 FCE x 4 = 1 FCE)

*Education 3239 may be taken for credit more than once if the topics are different.

Note: Concurrent Education students should check the timetable for non-Professional Year course offerings.

Fourth Year (Professional Year):

- (a) Core:
 - (i) Education 4417, 4418 and 4470 (.25 FCE x 2 + 0.5 FCE x 1 = .75 FCE)
 - (ii) Education 4412, 4413, 4414 and 4416 (.25 FCE x 4 = 1 FCE)
- (b) Curriculum and Instruction in Intermediate-Senior Education:

- (i) Education 4213 or, if teachable is English, one of the Education electives listed in (iii) (.25 FCE)
 - (ii) Two Curriculum and Instruction courses in Teachable 1 and Teachable 2 selected from: Education 4241, 4242, 4244, 4245, 4260, 4261, 4262, 4263, 4265, 4280, 4281, 4283, 4284, 4288 (1 FCE x 2 = 2 FCEs)
 - (iii) Two Education .25 FCE electives (see Electives in the Department of Undergraduate Studies in Education Courses list)* (.25 FCE x 2 = 0.5 FCE)
 - (iv) Education 4271 (.25 FCE)
- (c) Student Teaching:
- (i) Education 4499 (0.5 FCE)
- *Education 3239 and 3259 may be taken for credit more than once if the topics are different.

6. BSc, BEd (Mathematics Major) I/S

Third Year:

- (a) One FCE in Mathematics at the third or fourth year level
 - (b) One FCE in Science
 - (c) Two FCEs in second teaching field with at least one half-course at the third or fourth year level
 - (d) Four Education electives (Education 2011 (0.5 FCE) recommended)(see Electives in the Department of Undergraduate Studies in Education Courses list)* (.25 FCE x 4 = 1 FCE)
- *Education 3239 may be taken for credit more than once if the topics are different.
- Note:** Concurrent Education students should check the timetable for non-Professional Year course offerings.

Fourth Year: (Professional Year):

- (a) Core:
 - (i) Education 4417, 4418 and 4470 (.25 FCE x 2 + 0.5 FCE x 1 = .75 FCE)
 - (ii) Education 4412, 4413, 4414 and 4416 (.25 FCE x 4 = 1 FCE)
 - (b) Curriculum and Instruction in Intermediate-Senior Education:
 - (i) Education 4213 or, if teachable is English, one of the Education electives listed in (iii) (.25 FCE)
 - (ii) Two Curriculum and Instruction courses in Teachable 1 and Teachable 2 selected from: Education 4241, 4242, 4244, 4245, 4260, 4261, 4262, 4263, 4265, 4280, 4281, 4283, 4284, 4288 (1 FCE x 2 = 2 FCEs)
 - (iii) Two Education .25 FCE electives (see Electives in the Department of Undergraduate Studies in Education Courses list)* (.25 FCE x 2 = 0.5 FCE)
 - (iv) Education 4271 (.25 FCE)
 - (c) Student Teaching:
 - (i) Education 4499 (0.5 FCE)
- *Education 3239 and 3259 may be taken for credit more than once if the topics are different.