

MEMORANDUM

TO: Ms Karen Roche
University Secretary

FROM: Dr. Wayne Melville
Chair, Senate Undergraduate Studies Committee

SUBJECT: Report of Senate Undergraduate Studies Committee – Part I

DATE: 28 November 2011

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The Four-Year Non-Direct Entry calendar change proposal was originally referred from Senate Meeting #2009-5 of May 15, 2009 (Faculty of Science and Environmental Studies – BA and BSc programs – 4-year non-honours programs). The Senate Undergraduate Studies Committee discussed the proposal at numerous meetings.

The recommendations from S USC in their report to the April 23, 2010 Senate meeting did not match the recommendations from the Senate Budget Committee in their report to the May 14, 2010 Senate meeting. Because Senate approved conflicting recommendations (regarding the admission to these programs) at the May meeting, a motion (item 11) was brought to the December 3, 2010 Senate meeting to resolve the matter.

MOVED that "for all 4-year non-direct entry degrees in the Faculty of Science and Environmental Studies, students will be moved into these programs only when they are no longer academically eligible to stay in an Honours program." be referred to the Senate Academic committee and the Senate Budget committee. Amended (see the minutes for Dec 3rd meeting)
KR Dec 3, 2010

The motion was referred to the Senate Academic Committee and Senate Budget Committee for consideration and approved at the January 28, 2011 Senate meeting.

Subsequently, revised wording for each program description was proposed and the proposal with S USC recommendations was forwarded to the Senate Budget Committee for their consideration. Because SBC requested that the wording be revised substantially, these revisions were brought back to the Faculty of Science and Environmental Studies for approval before being forwarded directly to the Senate subcommittees.

On November 17, 2011, the Senate Undergraduate Studies Committee reviewed the final revised document (as attached), and recommends that Senate approve the proposal. The document has been forwarded to the Senate Budget Committee for their consideration.

Dr. Wayne Melville, Chair

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Encl

FOUR-YEAR NON-DIRECT ENTRY REVISED PROGRAM DESCRIPTIONS

BA (Anthropology Major)

Four Year Non-Direct Entry program

The program requirements are the same as for the HBA (Anthropology Major) program except that students shall not take the honours thesis (ANTH 4901) and in order to remain in the program, students must maintain at least an overall C average in the major.

BSc (Anthropology Major)

Four Year Non-Direct Entry program

The program requirements are the same as for the HBSc (Anthropology Major) program except that students shall not take the honours thesis (ANTH 4901) and in order to remain in the program, students must maintain at least an overall C average in the major.

BSc (Applied Bio-Molecular Science Major)

Four Year Non-Direct Entry program

The program requirements are the same as for the HBSc (Applied Bio-Molecular Science Major) program, except that students shall not take an honours thesis, as noted in the List of Recommended Courses. Also, in order to remain in the program, students must maintain at least an overall C average in all required courses, including those specified in the List of Recommended Courses for third and fourth year of the program, but not including the open electives.

BSc (Bioinformatics Major)

Four Year Non-Direct Entry program

The program requirements for the first three years are the same as for the HBSc (Bioinformatics Major) program; however, in order to remain in the program, students must maintain at least an overall C average in the Core Courses taken in the program.

Fourth Year:

- (a) Bioinformatics 4501
- (b) Biology 3330
- (c) Chemistry 4710
- (d) Computer Science 3413 and 4411
- (e) Physics 3511 or Chemistry 4191/Bioinformatics 4191
- (f) One half-course elective from the List of Recommended Electives
- (g) One FCE elective

BSc (Biology Major)

Four Year Non-Direct Entry program

The program requirements are the same as for the HBSc (Biology Major) program; however, in order to remain in the program, students must maintain at least an overall C average in the major.

BSc (Chemistry Major)

Four Year Non-Direct Entry program

The program requirements for the first three years are the same as for the HBSc (Chemistry Major) program. In order to remain in the program, students must maintain at least an overall C average in the major.

Fourth Year:

- (a) Three FCEs in Chemistry chosen from: Chemistry 3271, 3431, 3711, 4011, 4131, 4191, 4211, 4311, 4411, 4571
- (b) Two FCE electives

BSc (Biology and Chemistry Major)

Four Year Non-Direct Entry program

The program requirements for the first three years are the same as for the HBSc (Biology and Chemistry Majors) program. In order to remain in the program, students must maintain at least an overall C average in the majors.

Fourth Year:

- (a) One FCE in Biology
- (b) One FCE in Chemistry (See Note)
- (c) One FCE in either Biology or Chemistry
- (d) Two FCE electives

Note:

The 1.5 FCE electives in Chemistry in the third or fourth years must be taken from: CHEM 3131, 3231, 3371 and 3451.

BSc (Computer Science Major)

Four Year Non-Direct Entry program

The program requirements are the same as for the HBSc (Computer Science Major); however, in order to remain in the program, students must maintain at least an overall C average in the major.

BSc (Computer Science Major) Co-op

Four Year Non-Direct Entry program

Students who have successfully completed at least two co-op work terms at the 3000 level or higher may complete this program. The program requirements are the same as for the HBSc (Computer Science) Co-operative program; however, in order to remain in the program, students must maintain at least an overall C average in the major.

BA (Economics Major)

Four Year Non-Direct Entry program

The program requirements are the same as for the HBA (Economics Major) program except that students shall not take the honours thesis (ECON 4901) and will take instead two half-courses in Economics at the third or fourth year level, as indicated below. In order to remain in the program, students must maintain at least an overall C average in the major

Fourth Year:

- (a) Economics 4217
- (b) Two half-courses in Economics at the third or fourth year level
- (c) Two and one half economics courses with at least one half course at the fourth or fifth year level
- (d) One FCE elective

BA (Economics and Political Science Majors)

Four Year Non-Direct Entry program

The program requirements are the same as for the HBA (Economics and Political Science Majors) program; however, in order to remain in the program, students must maintain at least an overall C average in the majors.

BSc (Geoarchaeology Major)

Four Year Non-Direct Entry program

The program requirements are the same as for the HBSc (Geoarchaeology Major) program except that students shall not take the honours thesis, as indicated below, and in order to remain in the program, students must maintain at least an overall C average in all Anthropology, Geography and Geology courses.

Fourth Year:

- (a) One FCE in Anthropology at the fourth-year level
- (b) Geoarchaeology 4101
- (c) Geology 3410
- (d) Two and one-half FCE electives

BA (Geography Major)

Four Year Non-Direct Entry program

The program requirements are the same as for the HBA (Geography Major) program; however, in order to remain in the program, students must maintain at least an overall C average in the major.

BSc (Geography Major)

Four Year Non-Direct Entry program

The program requirements are the same as for the HBSc (Geography Major) program; however, in order to remain in the program, students must maintain at least an overall C average in the major.

BSc (Geography with Geology Minor)

The program requirements are the same as for the HBSc (Geography with Geology Minor) program; however, in order to remain in the program, students must maintain at least an overall C average in the major and in the minor. All course choices in the fourth year must be approved by the department Chairs.

BSc (Geology Major)

Four Year Non-Direct Entry program

The program requirements for the first three years are the same as for the HBSc program, except that in order to remain in the program, students must maintain at least an overall C average in the major.

Fourth Year:

(a) Geology 4137, 4161, 4215, 4313, 4411

(b) One FCE from: Biology, Chemistry, Computer Science, Mathematics or Physics

(c) One FCE elective from*: Engineering 2139, 2433, 3738; Forestry 2110, 2350;

Geography 2211, 2331, 2351, 3251, 3311, 3313, 3315, 3317, 3331, 4211, 4231, 4333;

Geology 4011 or any courses above first year level, excluding the undergraduate thesis and co-op work terms, in Biology, Chemistry, Computer Science or Physics

*Permissions or prerequisite may be required

BSc (Geology with Major Concentration in Physics)

Four Year Non-Direct Entry program

The program requirements for the first three years are the same as for the HBSc program, except that in order to remain in the program, students must maintain at least an overall C average in the major.

Fourth Year:

(a) Geology 4313, 4411

- (b) Physics 3211, 3231
- (c) Geology 4161 (may be a Geophysics project)
- (d) One half-course elective in Physics
- (e) One half-course elective in Geology or Physics
- (f) One FCE elective

BA (Mathematics Major)

Four Year Non-Direct Entry program

Except as indicated below, the program requirements are the same as for the HBA (Mathematics Major) program; however, in order to remain in the program, students must maintain at least an overall C average in the major.

Third Year:

- (a) Mathematics 2331, 2333
- (b) One FCE in Mathematics at the third or fourth year level
- (c) One FCE from Group I or Group II, excluding Mathematics
- (d) Two FCE electives

Fourth Year:

- (a) One FCE in Mathematics at the third or fourth year level
- (b) Four FCE electives

BSc (Mathematics Major)

Four Year Non-Direct Entry program

Except as indicated below, the program requirements are the same as for the HBSc (Mathematics Major) program; however, in order to remain in the program, students must maintain at least an overall C average in the major.

Third Year:

- (a) Mathematics 2331, 2333
- (b) One FCE in Mathematics at the third or fourth year level
- (c) One FCE in Science
- (d) Two FCE electives

Fourth Year:

- (a) One FCE in Mathematics at the third or fourth year level
- (b) Four FCE electives

BSc (Physics Major)

Four Year Non-Direct Entry program

The program requirements are the same as for the HBSc (Physics Major) Co-op or the HBSc (Physics Major) non Co-op; however, students shall not take the honours thesis (Physics 4501) or co-op work terms and in order to remain in the program, students must maintain at least an overall C average in the major.

BSc (Mathematical Physics Major)

Four Year Non-Direct Entry program

The program requirements are the same as for the HBSc program; however, students shall not take the honours thesis (Physics 4501) and in order to remain in the program, students must maintain at least an overall C average in the major (defined as all Physics courses and Mathematics 2255, 2275 and 3171).

BSc (Physics) with Major Concentration in Applied Bio-Molecular Science

Four Year Non-Direct Entry program

The program requirements are the same as for the HBSc (Physics) with Major Concentration in Applied Bio-Molecular Science program, except that students shall not take the honours thesis (Physics 4501) and in order to remain in the program, students must maintain at least an overall C average in the major and in the major concentration. All course choices in the fourth year must be approved by the department Chairs.

BSc (Water Resource Science Major)

Four Year Non-Direct Entry program

The program requirements are the same as for the HBSc program except one FCE elective is taken instead of the Honours Thesis (Water Resource Science 4101), as indicated below, and in order to remain in the program, students must maintain at least an overall C average in all Biology, Geography, Geology and Water Resource Science courses.

Fourth Year:

- (a) One FCE selected from: Biology 3114, 3151, 3313, 3610, 4113, 4115, 4212, 4213, 4217, 4430, 4431, 4435, 4710, 4711, or Applied Bio-Molecular Science 4710
- (b) One FCE selected from: Geography 2211, 2251, 2351, 3251, 3311, 3313, 3317, 3411, 3471, 4211, 4333, 4411, 4431, 4451
- (c) Geology 4011 and 4137
- (d) Water Resource Science 4630
- (e) One and one-half FCE electives

BSc (Water Resource Science Major) Specialization in Applied Environmental Water Management

Four Year Non-Direct Entry program

The program requirements are the same as for the HBSc program except one FCE elective is taken instead of the Honours Thesis (Water Resource Science 4101), as indicated below,

and in order to remain in the program, students must maintain at least an overall C average in all Biology, Geography, Geology and Water Resource Science courses.

Fourth Year:

(a) Geology 3311, 4011 and 4137

(b) Geography 4411

(c) Water Resource Science 4630

(d) One FCE selected from: Biology 2711, 3114, 3151, 3313, 3151, 3313, 3610, 4113, 4115, 4212, 4213, 4217, 4430, 4431, 4435, 4710, 4711, or Applied Bio-Molecular Science 4710

(e) One half-course selected from: Geography 2211, 2251, 2351, 3251, 3311, 3313, 3317, 3411, 3471, 4211, 4333, 4431, 4451

(f) One FCE elective

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