

MEMORANDUM

TO: Ms Karen Roche
Secretary of Senate

FROM: Dr. Rhonda Koster
Chair, Senate Undergraduate Studies Committee

SUBJECT: Report of Senate Undergraduate Studies Committee-Part 2

DATE: 13 April 2010

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PART 2 – CALENDAR ENTRY FOR EXISTING HBSC (WATER RESOURCE SCIENCE) WITH PROPOSED NEW SPECIALIZATION AND NEW FOUR-YEAR NON-DIRECT ENTRY DEGREE WITH NEW SPECIALIZATION

The Senate Undergraduate Studies Committee met on March 19 and 26 to review a proposal for an articulation agreement between Confederation College and Lakehead University regarding the integrated Environmental Technician Diploma and the HBSc (Water Resource Science Major) with Specialization in Applied Environmental Water Management degree program.

The articulation agreement includes a proposed new Specialization in Applied Environmental Water Management for the Honours Bachelor of Science (Water Resource Science Major) degree program and, in addition, a new four-year BSc (Water Resource Science Major) non-direct entry degree with the same Specialization in Applied Environmental Water Management.

The Committee recommends approval of the new Specialization in Applied Environmental Water Management added to the current HBSc (Water Resource Science Major) and the new four-year BSc (Water Resource Science Major) with Specialization in Applied Environmental Water Management non-direct entry degree, as described in calendar entry in Attachment #1. The Committee has forwarded the recommendations to the Senate Budget Committee for their consideration.



Dr. Rhonda Koster, Chair

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**ATTACHMENT #1 – CALENDAR ENTRY FOR:
PROPOSED HBSc (WATER RESOURCE SCIENCE MAJOR) WITH SPECIALIZATION IN
APPLIED ENVIRONMENTAL WATER MANAGEMENT
AND
FOUR-YEAR NON-DIRECT ENTRY BSc (WATER RESOURCE SCIENCE MAJOR) WITH
SPECIALIZATION IN APPLIED ENVIRONMENTAL WATER MANAGEMENT**

1. Add a second introductory paragraph below the program committee listing:

Students wishing to pursue the HBSc (Water Resource Science) Specialization in Applied Environmental Water Management must complete Year 2 of their degree program at Confederation College in the second year of the Environmental Technician Diploma program. This is a limited enrolment program. Upon successful completion of year four at Lakehead University the student will receive:

- 1) HBSc Degree in Water Resource Science from Lakehead University
- 2) Environmental Technician Diploma from Confederation College

The successful graduate will also be eligible to obtain certification as a Water and Wastewater operator in training (OIT) and Entry Level Drinking Water Operator (Ontario Provincial Certification). While at the College the student may also have the opportunity to enroll in a co-op option.

2. Add new program:

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

Four Year program

Students must achieve a minimum 60% overall average in all courses at the end of their first year at the University and a minimum 70% average in all courses at the end of their second year at the College. To successfully complete the program the overall average in all Biology, Geography, Geology and Water Resource Science courses must be at least 70%.

First Year:

- (a) Biology 1110 and 1130
- (b) Chemistry 1110 and 1130
- (c) Forestry 1010
- (d) Geography 1120 and 2211
- (e) Geology 1111 and 1131
- (f) Water Resource Science 1094 (a non-credit required course)

Second Year (Confederation College)

Third Year:

- (a) Biology 2110 and 2210
- (b) Geography 2251 and 3411
- (c) Geology 2214 and 3410
- (d) One FCE selected from: Biology 2711, 3114, 3151, 3313, 3610, 4113, 4115, 4212, 4213, 4217, 4430, 4431, 4435, or Applied Bio-Molecular Science 4710
- (e) One FCE selected from: Geography 2211, 2251, 2351, 3251, 3291, 3311, 3313, 3317, 3411, 3471, 4211, 4333, 4431, 4451

Fourth Year:

- (a) Geology 3311, 4011, and 4137
- (b) Geography 4411
- (c) Water Resource 4101 and 4630
- (d) One FCE selected from: Biology 2711, 3114, 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, 3291, 3311, 3313, 3317, 3411, 3471, 4211, 4333, 4431, 4451

3. Add new course:

Water Resource Science 1094 – Field School

Credit Weight: 0.0

Description:

Students will receive lab instruction and conduct field exercises in dendrology and forest mensuration for four days prior to the start of fall classes.

Grade Scheme: Pass/Fail

Notes: A non-credit required course for the Specialization in Applied Environmental Water Management only. An additional field trip fee is required for this course.

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

Four Year non-direct entry program

This program is designed for students who lack the required B (70%) major average in Biology, Geography, Geology and Water Resource Science courses from Lakehead University to complete the four-year HBSc.

Year One through Three:

Course requirements for the first three years are the same as for the four-year HBSc with Specialization in Applied Water Management program.

Fourth Year:

Course requirements for the fourth year are the same as for the four-year HBSc with Specialization in Applied Water Management program, except that students may substitute one full course elective for Water Resource Science 4101.

Students who successfully complete a four-year BSc (Water Resource Science Major) Specialization in Applied Environmental Water Management degree will still receive the Environmental Technician Diploma from Confederation College.