

**Request for Calendar Change Form**

Tracking No:  
(Senate Secretary's Office  
use only)

Date:  
\_\_\_\_\_

To Secretary of Senate  
From Name(Dean): \_\_\_\_\_ Faculty \_\_\_\_\_  
 Dr. Andrew Dean Science and Environmental Studies  
 Department the change relates to  
 Division of Environmental Studies, Departments of Geography and Biology  
 Contact Person  
 Dr. Brian Lorch and Dr. Kam Leung

Is the proposed calendar change Undergraduate

**Instructions:**

1. In all cases please complete and attach section 1 and 2
2. If the calendar change affect other departments/schools/faculties complete and attach section 3
3. If the answer to any of the questions below is yes, explain. Attach separate sheets with reference to the question

- |  |  |   |
|--|--|---|
| 1. Do the proposed changes affect other departments/ schools/faculties in terms of their calendar change?                                | Yes<br><input checked="" type="checkbox"/> | No<br><input type="checkbox"/>            |
| 2. Is a transition plan needed for student in progress?  | Yes<br><input type="checkbox"/>            | No<br><input checked="" type="checkbox"/> |
| 3. Are the proposed changes likely to affect student enrollment in your department/school/faculty?                                       | Yes<br><input checked="" type="checkbox"/> | No<br><input type="checkbox"/>            |
| 4. Are the proposed changes likely to affect student enrollment in other departments/schools/faculties at Lakehead University?           | Yes<br><input checked="" type="checkbox"/> | No<br><input type="checkbox"/>            |
| 5. Will the proposed changes require additional teaching space and/or teaching staff and/or equipment and/or other resources?            | Yes<br><input type="checkbox"/>            | No<br><input checked="" type="checkbox"/> |
| 6 Will the proposed changes affect existing teaching loads within your department/school/faculty?  | Yes<br><input type="checkbox"/>            | No<br><input checked="" type="checkbox"/> |
| 7. Will the proposed changes increase demand for teaching support services such as the library, computing services and technical staff ? | Yes<br><input type="checkbox"/>            | No<br><input checked="" type="checkbox"/> |
| 8. Will the proposed change require direct or in-kind support from outside the academic unit?  | Yes<br><input type="checkbox"/>            | No<br><input checked="" type="checkbox"/> |
| 9. Do the proposed changes include change in course(s) which is/are required core course(s) for a major?                                 | Yes<br><input checked="" type="checkbox"/> | No<br><input type="checkbox"/>            |
| 10. Do the proposed changes include a change in course which is service/required course(s) in another program?                           | Yes  | No  |

- |  |                                     |                                     |
|--|-------------------------------------|-------------------------------------|
|  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11. Do the proposed changes include change in course(s) which is/are open elective available to any student in any program?      | Yes                                 | No                                  |
|  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 12. Do the proposed changes include change in course(s) which is/are elective in a major i.e. restricted to students in a major? | Yes                                 | No                                  |
|  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

Signatures:

Date approved by faculty council

Section 1

Description of the Proposed Calendar Change:

Create the option to combine a BEd program with HBESc programs in Geography, HBESc in Biology and HBES in Geography

Rationale of the Proposed Calendar Change(s):

(Corresponding to Section 2 where required)

1

The addition of these programs is intended to meet a growing demand for environmental studies training for students preparing for a career in teaching at the high school level. The addition of these CONED options require only one minor change to the HBESc in Geography program. No changes are required in the HBES in Geography program as there are presently enough open electives in the program to allow CONED students to acquire the necessary electives to enter the professional year of education. Changes are required in the HBESc degree in Biology to allow for enough free elective space for the required Education courses in the first four years. The CONED option can only be offered to students in the Intermediate-Senior stream. There is not a sufficient number of electives in the HBES and HBESc programs to satisfy the Music/Visual Arts, Science, English and Education specialization course requirements of the P-J and J-I streams.

It is expected that the offering of these programs with Education will lead to an increase in enrolment. Currently, there is some capacity in Geography and Biology to cope with a moderate increase but if demand is strong, pressure could be placed on some Geography and Biology courses, especially laboratory-based courses offered at the 2nd year level.

2

As the HBES and HBESc (Geography) programs are also listed in the Geography section of the calendar, we are suggesting that the new concurrent options be listed in the Geography section as well. Similarly for Biology.

3

In the HBESc in Geography, English is being added to the list of possible elective choices under First Year, Item (c) to accommodate the English requirement for the Bachelor of Education degree. In the Biology program Third year, Item (b) this will be changed to Two and a half FCEs from Ecology, Evolution and Environmental Biology (in the list of Biology Elective Streams (b), of the Biology Program, page 176) and in Third Year, Item (c) one FCE elective will be changed to .5 fce elective. In addition, in Fourth Year, item (a) will be changed to Three FCE biology courses at the third or fourth year level selected from the list

of Ecology, Evolution and Environmental Biology courses, page 176 and there will be an addition of an item (c) One FCE elective. This will allow enough open electives in the HBESc in Biology for the required Education electives in a Concurrent Education I-S program.

Section 2	
Existing Calendar Entries: (Page reference based on hard copy or URL based on electronic version of calendar)	Proposed Calendar Entries/Addition/ Deletion -If only addition, specify page number and placement in university calendar -If only deletion, write Deleted
<div data-bbox="124 395 240 430" style="border: 1px solid black; padding: 2px;">1</div> <div data-bbox="124 437 678 478" style="border: 1px solid black; padding: 2px;">page 193</div>	<div data-bbox="692 493 1396 561" style="border: 1px solid black; padding: 2px;">Insert following as Item 5 in Program section on pages 192-193 of current calendar</div> <div data-bbox="692 590 1225 623" style="border: 1px solid black; padding: 2px;"><b>5. Concurrent Programs with Education</b></div> <div data-bbox="692 654 1374 1073" style="border: 1px solid black; padding: 2px;">The following degree programs in Environmental Science/Studies are offered concurrently with a Bachelor of Education degree (I-S stream): HBESc in Biology, HBESc in Geography, HBES in Geography. Prior to the Professional Year, students should follow the HBESc or HBES program requirements; however, they should also include the prior to entry into the Professional Year requirements of the Intermediate-Senior Specializations as listed on pages 70-71. For more information about concurrent programs, see the Faculty of Education, Undergraduate Studies in Education, starting on page 65.</div> <div data-bbox="692 1079 1358 1265" style="border: 1px solid black; padding: 2px;">Note: For students in concurrent honours bachelor degree programs, 1.5 FCEs of required Education courses will be taken instead of electives in the HBESc or HBES program, prior to entering the Professional Year.</div>
<div data-bbox="124 1334 240 1369" style="border: 1px solid black; padding: 2px;">2</div> <div data-bbox="124 1375 678 1417" style="border: 1px solid black; padding: 2px;">200</div> <div data-bbox="124 1425 678 1549" style="border: 1px solid black; padding: 2px;">12. Concurrent Programs with Education A. The Honours BA and Honours BSc (Geography) degrees are offered concurrently with a Bachelor of Education degree.</div>	<div data-bbox="692 1425 1396 1653" style="border: 1px solid black; padding: 2px;">12. Concurrent Programs with Education A. The Honours BA and Honours BSc (Geography) degrees are offered concurrently with a Bachelor of Education degree. The HBES and HBESc in Geography are also available concurrently with Bachelor of Education but only for students in the Intermediate-Senior Specialization.</div>
<div data-bbox="124 1721 240 1757" style="border: 1px solid black; padding: 2px;">3</div> <div data-bbox="124 1763 678 1804" style="border: 1px solid black; padding: 2px;">192</div> <div data-bbox="124 1813 678 1881" style="border: 1px solid black; padding: 2px;">HBSc (Environmental Studies and Geography Majors)</div>	<div data-bbox="692 1813 1396 1916" style="border: 1px solid black; padding: 2px;">HBSc in Geography  First Year</div>

**First Year**

(c) One FCE from: Anthropology, Economics, History, Indigenous Learning, Philosophy, Political Science, Sociology

(c) One FCE from: Anthropology, Economics, English, History, Indigenous Language, Philosophy, Political Science, Sociology

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10. Concurrent Programs with Education  
A. The Honours BSc (Biology) and Honours BSc (Biology and Chemistry) degrees are offered concurrently with a Bachelor of Education degree.

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**1. HBESc (Environmental Studies and Biology Majors)**

Four Year program

First Year:

- (a) Environmental Studies 1120
- (b) Biology 1110 and 1130
- (c) Chemistry 1110, 1130
- (d) One full course equivalent (FCE) from Group I (see Social Sciences and Humanities Regulations, First Year Arts Program Grouping Requirements, page 203)
- (e) Mathematics 1160, or Physics 1113 and 1133

Second Year:

- (a) Environmental Studies 2013 and 2210
- (b) One FCE Environmental Studies elective (Science Stream)
- (c) Two of: Chemistry 2111, 2211, 2231
- (d) Two of: Biology 2171, 2230, 2711
- (e) Mathematics 2321

Third Year:

- (a) Two FCEs Environmental Studies electives (Science Stream)
- (b) Two FCEs from Ecology, Evolution and Environmental Biology (in the list of Biology Elective Streams (b), of the Biology Programs, page 170)
- (c) One FCE elective

Fourth Year:

- (a) Four FCE biology courses at the third or fourth year level selected from the list of Ecology, Evolution and Environmental Biology courses, page 160
- (b) Environmental Studies 4800

**1. HBESc in Biology**

Four Year program

First Year:

- (a) Environmental Studies 1120
- (b) Biology 1110 and 1130
- (c) Chemistry 1110, 1130
- (d) One full course equivalent (FCE) from Group I (see Social Sciences and Humanities Regulations, First Year Arts Program Grouping Requirements, page 203)
- (e) Mathematics 1160, or Physics 1113 and 1133

Second Year:

- (a) Environmental Studies 2013 and 2210
- (b) One FCE Environmental Studies elective (Science Stream)
- (c) Two of: Chemistry 2111, 2211, 2231
- (d) Two of: Biology 2171, 2230, 2711
- (e) Mathematics 2321

Third Year:

- (a) Two FCEs Environmental Studies electives (Science Stream)
- (b) Two and a half FCEs from Ecology, Evolution and Environmental Biology (in the list of Biology Elective Streams (b), of the Biology Programs, page 170)
- (c) .5 FCE elective

Fourth Year:

- (a) three FCE biology courses at the third or fourth year level selected from the list of Ecology, Evolution and Environmental Biology courses, page 160
- (b) Environmental Studies 4800
- (c) One FCE elective

Section 3

The Faculty(ies) affected by the proposed calendar change

Faculty of Education

**I have been consulted regarding the attached calendar change and understand the academic and budgetary implication on my Dept./School/Faculty.**

I agree to this calendar change proposal

Yes

No

Name:

J. O'Meara

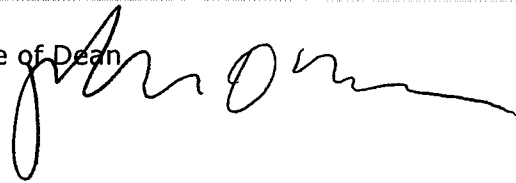
Faculty:

EDU

Date:

Nov. 12/08

Signature of Dean



Nov. 12/08

Arthur Dean

SES