

## Request for Calendar Change Form

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

Date:

To	Secretary of Senate	
From	Name(Dean):	Faculty
	<input style="width: 95%;" type="text" value="Andrew Dean"/>	<input style="width: 95%;" type="text" value="Science &amp; Environmental Studies"/>
	Department the change relates to	
	<input style="width: 95%;" type="text" value="Biology"/>	
	Contact Person	
	<input style="width: 95%;" type="text" value="Azim Mallik"/>	

Is the proposed calendar change Graduate

**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 type="checkbox"/>            | No<br><input checked="" type="checkbox"/> |
| 2. Is a transition plan needed for student in progress?  | Yes<br><input checked="" type="checkbox"/> | No<br><input type="checkbox"/>            |
| 3. Are the proposed changes likely to affect student enrollment in your department/school/faculty?                                       | Yes<br><input type="checkbox"/>            | No<br><input checked="" type="checkbox"/> |
| 4. Are the proposed changes likely to affect student enrollment in other departments/schools/faculties at Lakehead University?           | Yes<br><input type="checkbox"/>            | No<br><input checked="" 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  | Yes  | No  |

- service/required course(s) in another program?  Yes  No
11. Do the proposed changes include change in course(s) which is/are open elective available to any student in any program?  Yes  No
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

Signatures:

Date approved by faculty council

### Section 1

#### Description of the Proposed Calendar Change:

This proposal involves dividing the existing Biology 5010 course into two new courses (Biology 5020 and Biology 5030) designed to develop critical thinking and scientific communication skills necessary to be successful graduate students and researchers. The content of both courses includes a mixture of hands-on instruction, practical experience in presenting scientific posters, thesis proposals, writing grant proposals, and attending and critiquing research seminars. Biology 5020 is a required course for all first-year M.Sc. graduate students, while Biology 5030 is optional. Continuing students must attend all guest lectures presented by the Department.

Calendar descriptions of these two new courses are below.

#### Rationale of the Proposed Calendar Change(s):

(Corresponding to Section 2 where required)

1. The current calendar entry does not properly describe the existing course structure and content.
2. These changes will resolve unreasonably high course load of Bio 5010 spread over two terms. Time spent on the course routinely exceeds 2 hours per week. These proposed changes take into account many of the criticisms that past students have expressed orally and in writing about the existing Bio 5010 course. In its current form students must attend classes in both fall and winter terms to complete this half credit course and they consider that to be unreasonable.
3. As a condition of last renewal of the graduate program in Biology, OCGS recommended only half a course equivalent to be allowed to take from senior level courses not previously taken in the Department of Biology or from senior level courses in a cognate department.

Since two instructors (one per term) are already allocated to teach the Bio 5010 course, there are no budgetary implications to this change.

#### Question 2: Transition Plan

All currently enrolled 1st year graduate students are likely to complete Biology 5010 as their required course. In the event of failing in Biology 5010 students can take Biology 5XXX in the fall 2009. Student receiving credit for Biology 5010 cannot enroll in Biology 5XXX or Biology

5YYY.

Question 9: Proposed Changes

The Biology 5010 core course will be replaced by Biology 5XXX core course.

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
<p>Existing Calendar Entries:</p> <p><b>PROGRAM</b> The program consists of five full course equivalents composed of a graduate thesis (equivalent to three full courses), a graduate seminar (equivalent to a half-course) taken in the first year of the program, and one and one-half elective courses. The student will take at least one full course at the fifth year level and, with permission of the Department and the Graduate Studies Committee, may be permitted to take one additional course selected from senior level courses not previously taken in the Department of Biology or from senior level courses in a cognate department. All candidates must satisfy the Department of Biology as to any required make-up undergraduate course work before being allowed to complete the Master's program. Candidates will be required to present at a special departmental seminar an outline and, if possible, the title of the proposed research thesis. An oral examination on the thesis will be required prior to final approval.</p> <p>Biology 5010 Graduate Seminar 1.5-0; 1.5-0 A required graduate seminar course providing opportunity to discuss current work and new developments in Biology. Students are required to complete Biology 5010 during the first year of their program.</p>	<p>Proposed Entry</p> <p><b>PROGRAM</b> The program consists of five full course equivalents composed of a graduate thesis (equivalent to three full courses), a graduate Communicating Science I Biology 5020 (equivalent to a half-course) taken in the first year of the program, and one and one-half elective courses. The student will take at least one full course at the fifth year level and, with permission of the Department and the Graduate Studies Committee, may be permitted to take one additional course selected from senior level courses not previously taken in the Department of Biology or from senior level courses in a cognate department. All candidates must satisfy the Department of Biology as to any required make-up undergraduate course work before being allowed to complete the Master's program. Candidates will be required to present at a special departmental seminar an outline and, if possible, the title of the proposed research thesis. An oral examination on the thesis will be required prior to final approval.</p> <p>Delete Biol 5010</p> <p>Biology 5XXX Communicating Science I 3-0; 0-0 An overview of scientific writing, critical appraisal and review, electronic publishing, and group discussion as well as effective methods to prepare and present research proposals, scientific posters, short oral presentations and formal seminars. This required course must be taken in the first year of a student's program.</p> <p>Biology 5YYY Communicating Science II 0-0; 3-0</p>

Application of communication and leadership skills with particular reference to writing and presenting research proposals and scientific posters, thesis defenses and research seminars.

Section 3

The Faculty(ies) affected by the proposed calendar change

Science & Environmental Studies

**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:

Faculty:

Date:

Signature of Dean