

Request for Calendar Change Form

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

To Secretary of Senate
From Name(Dean): Dr. Andrew P. Dean Faculty Faculty of Science & Environmental Studies
Department the change relates to PHYSICS
Contact Person Dr. William Sears

Is the proposed calendar change Undergraduate

Instructions:

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

- | | | |
|--|---------------------------------|---|
| 1. Do the proposed calendar entry affect other departments/schools/faculties in terms of their calendar? | Yes
<input type="checkbox"/> | No
<input checked="" type="checkbox"/> |
| 2. Is a transition plan needed for student in progress? | Yes
<input type="checkbox"/> | No
<input checked="" type="checkbox"/> |
| 3. Are the proposed changes likely to affect student enrollment in your department/school/faculty? | Yes
<input type="checkbox"/> | No
<input checked="" type="checkbox"/> |
| 4. Are the proposed changes likely to affect student enrollment in other departments/schools/faculties at Lakehead University? | Yes
<input type="checkbox"/> | No
<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
<input type="checkbox"/> | No
<input checked="" type="checkbox"/> |
| 6. Will the proposed changes affect existing teaching loads within your department/school/faculty? | Yes
<input type="checkbox"/> | No
<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
<input type="checkbox"/> | No
<input checked="" type="checkbox"/> |
| 8. Will the proposed change require direct or in-kind support from outside the academic unit? | Yes
<input type="checkbox"/> | No
<input checked="" type="checkbox"/> |
| 9. Do the proposed changes include a course(s) which is/are required core course(s) for a major in your, or another, department? | Yes
<input type="checkbox"/> | No
<input checked="" type="checkbox"/> |

10. Do the proposed changes include a course(s) which is/are a service course(s) in your, or another, department? Yes No

11. Do the proposed changes include a course(s) which is/are an open elective available to any student in any program? Yes No

12. Do the proposed changes include a course(s) which is/are an elective in your major that is restricted to students in your major? Yes No

Signatures:

Date approved by faculty council

Oct 1 / 09

Section 1

Description of the Proposed Calendar Change:

Revision of Physics with Applied Bio-Molecular Science program.

Rationale of the Proposed Calendar Change(s):

(Corresponding to Section 2 where required)

These changes are made to give a better balance between Physics and Bio-Molecular Science.

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>1</p> <p>Under heading: 5. Honours BSc (Mathematical Physics Major) http://calendar.lakeheadu.ca/draft-nextyear/programs/Faculty_of_Science_%26_Env_St/physprog.html</p> <p>Four Year program Basic requirement: a student may enter the Honours BSc program in mathematical physics after the first year providing an overall B average has been obtained in the physics courses of that year and all other courses have been completed satisfactorily.</p>	<p>Four Year program A cumulative average of 70% in all Physics and Mathematics courses is required.</p>
<p>2</p> <p>Under heading 6. Honours BSc (Physics) with Major Concentration in Applied Bio-Molecular Science, Four Year program</p> <p>Four Year program This is a program designed for students interested in medical physics, medicine, biotechnology instrumentation, or biological physics research. Courses which count towards the Major Concentration in Applied Bio-Molecular Science are indicated below with an asterisk.</p>	<p>Four Year program This is a program designed for students interested in medical physics, medicine, biotechnology instrumentation, or biological physics research. Courses which count towards the Major Concentration in Applied Bio-Molecular Science are indicated below with an asterisk. A cumulative average of 70% in all Physics courses as well as all program courses is required.</p>
<p>3</p> <p>Under heading 6. Honours BSc (Physics) with Major Concentration in Applied Bio-Molecular Science, Four Year program</p> <p>Second Year: (a) Physics 2211, 2311, 2331 and 2332 (b) Physics 2111 or 2151 (c) Mathematics 2111 and 2131 (d) Biology 2711* and 2230* (e) Chemistry 2211*</p>	<p>Second Year: (a) Physics 2151, 2211, 2311, 2331 and 2332 (b) Mathematics 2111 and 2131 (c) Biology 2230* (d) Chemistry 2211* (e) One half-course elective</p>
<p>4</p> <p>Under heading 6. Honours BSc (Physics) with Major Concentration in Applied Bio-Molecular Science, Four Year program</p>	

Third Year:

- (a) Physics 3113, 3211 and 3231
- (b) Physics 2111 or 2151 (the one not previously taken)
- (c) One FCE in Physics at the third or fourth year level
- (d) Mathematics 3131 and 3133
- (e) Chemistry 2231*
- (f) Anthropology 3138* or Biology 2910*

Third Year:

- (a) Physics 2111, 3113, 3211, 3231 and 3511
- (b) One half-course elective in Physics
- (c) Mathematics 3131
- (d) Biology 2711 and 2910
- (e) One half-course elective

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Under heading 6. Honours BSc (Physics)
with Major Concentration in Applied Bio-
Molecular Science, Four Year program

Fourth Year:

- (a) Physics 4411 and 4412
- (b) Three half-courses in Physics at the fourth year level
- (c) Two of Anthropology 3136*, 3139*, 4417*, 4419*, Biology 3250*, 3330*, 3711*, 4230* or 4711*
- (d) Chemistry 3251
- (e) One FCE elective

Fourth Year:

- (a) Physics 4411 and 4412
- (b) One half-course elective in Physics
- (c) One half-course elective in third or fourth year Physics
- (d) One half-course elective in fourth year Physics
- (e) Three half-courses from the ABMS recommended list (excluding Physics)
- (f) One full-course elective

Note:

1. An Honours Physics Thesis (4501) can be used in place of the lab courses (4411 and 4412) or as an open elective. It can not be used to replace Physics electives.
2. Students can switch to the Honours Physics program after second year (see previous entry).
3. Due to course rotation some courses must be taken in a different year than listed above.

Section 3

The Faculty(ies) affected by the proposed calendar change

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

I agree to this calendar change proposal Yes No

If you choose "No" please explain why in the box below

Name: Andrew Dean

Faculty: Science and Environmental Studies

Date: Oct 20/09

Signature of Dean



Dr. Heidi Schraft
H. Schraft