

Physics course
titles + update

Request for Calendar Change Form

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

To Secretary of Senate
From Name(Dean): Faculty
Dr. Andrew P. Dean 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

Section 1

Description of the Proposed Calendar Change:

Course title and description updates

Rationale of the Proposed Calendar Change(s):

(Corresponding to Section 2 where required)

Housekeeping changes to reflect current course delivery.

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

1

Under heading PHYSICS COURSES
<http://mycoursecalendar.lakeheadu.ca/pg191.html>

Physics 1010 Introductory Applied Physics II (Electricity)
Credit Weight: 0.5

Description: This is a non-calculus introduction to sound, electricity, and magnetism. Topics covered include wave motion, sound, the electric field, electric potential, direct current circuits, electrochemistry, the magnetic field, electromagnetic induction, and alternating current circuits.

Offering: 0-0; 3-2

Notes: Course designated primarily for Engineering Technology students, which may be taken for degree credit by students not majoring in Science.

Physics 1010 Applied Physics II
Credit Weight: 0.5

This course is reserved for Engineering Technology students. See Physics 1133 for description.

Offering: 0-0; 3-3

2

Under heading PHYSICS COURSES
<http://mycoursecalendar.lakeheadu.ca/pg191.html>

Physics 1030 Introductory Applied Physics I (Mechanics)
Credit Weight: 0.5

Description: This is a non-calculus introduction to mechanics. Topics covered include vectors, statics, uniform accelerated motion, energy, momentum, uniform circular motion, simple machines, elasticity, and simple harmonic motion.

Offering: 3-2; 0-0

Notes: Course designated primarily for Engineering Technology students, which may be taken for degree credit by students not majoring in Science.

Physics 1030 Applied Physics I
Credit Weight: 0.5

This course is reserved for Engineering Technology students. See Physics 1113 for description.

Offering: 3-3; 0-0

3

Under heading PHYSICS COURSES
<http://mycoursecalendar.lakeheadu.ca/pg191.html>

Physics 1101 Introductory Physics
Credit Weight: 1.0

Corequisite(s): Mathematics 1160 or 1180

Description: A calculus-based course intended for students in the physical sciences, applied sciences and mathematics which includes the study of Newtonian mechanics for particles and rigid bodies, gravitation, oscillations, mechanical waves and sound, electricity, D.C. and A.C. circuits, electromagnetic waves and the wave properties of light, accompanied by related laboratory work. Note:

Offering: 3-3; 3-3

Notes: Students may receive credit for only one of Physics 1101 or 1113/1133.

Physics 1101 Introductory Physics
Credit Weight: 1.0

Corequisite(s): Mathematics 1160 or 1180

Description: A calculus-based course intended for students in the physical sciences, applied sciences and mathematics which includes the study of Newtonian mechanics for particles and rigid bodies, gravitation, oscillations, mechanical waves and sound, electricity, D.C. and A.C. circuits, electromagnetic waves and the wave properties of light, accompanied by related laboratory work.

Offering: 3-3; 3-3

Notes: Students may receive credit for only one of Physics 1101, 1113/1133 or 1010/1030.

4

Under heading PHYSICS COURSES
<http://mycoursecalendar.lakeheadu.ca/pg191.html>

Physics 1113 Introductory Physics for Life Sciences I
Credit Weight: 0.5

Description: A non-calculus course primarily for students with an interest in biology, medicine or athletics. Topics include: two-dimensional motion; rotational motion; levers and torque; momentum and collisions; work and energy; oscillations; fluids; waves and sound. Note:

Offering: 3-3; 0-0

Notes: Students may receive credit for only one of Physics 1101 or 1113/1133.

Physics 1113 Physics Essentials I
Credit Weight: 0.5

Description: A non-calculus course primarily designed for students who wish a broad overview of basic physical principles and concepts, but do not require the calculus-based analysis needed for further study. Topics include: motion in one and two dimensions; Newton's Laws; work and energy; momentum and collisions; oscillations; rotational motion; gravitation; elasticity and fluids; waves and sound; thermal expansion. Laboratory work is mandatory.

Offering: 3-3; 0-0

Notes: Students may receive credit for only one of Physics 1101, 1113/1133 or 1010/1030.

5

Under heading PHYSICS COURSES
<http://mycoursecalendar.lakeheadu.ca/pg191.html>

Physics 1133 Introductory Physics for Life

Physics 1133 Physics Essentials II

Sciences II
Credit Weight: 0.5

Prerequisite(s): Physics 1113

Description: This is a continuation of Physics 1113. Topics include: electricity and magnetism; electric circuits and nerves; light, optics, and optical instruments. Note:

Offering: 0-0; 3-3

Notes: Students may receive credit for only one of Physics 1101 or 1113/1133.

Credit Weight: 0.5

Prerequisite(s): Physics 1113

Description: This is a continuation of the basic principles approach started in Physics 1113. Topics include: electric forces, fields, and potential energy; capacitance, resistance, and DC circuits; magnetism and AC circuits; special relativity; optics; atomic and nuclear physics. Laboratory work is mandatory.

Offering: 0-0; 3-3

Notes: Students may receive credit for only one of Physics 1101, 1113/1133 or 1010/1030.

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 18, 2010

Signature of Dean

