

Comp Sci
4451, 3415,
0433

Calendar change notes (COMP4451, COMP3415, COMP0433)

COMP4451:

Item 9: Required in Computer Science, Science option,

Item 10: Optional in Mathematics of Computing, Non Co-op Option

Item 12: On list of electives for Computer Science

COMP3415:

Item 9: Required in Computer Science

Item 10: Required in Mathematics of Computing (Co-op and Non Co-op options)

COMP0433:

Items (5,6): It is not a required course and consequently would only be offered when existing resources permit, or when additional resources are available for distance education delivery.

Item 11: The course will be open to all students. This is the main purpose of the course, to provide a computer literacy opportunity over all disciplines.

Request for Calendar Change Form

Tracking No:
 (Senate Secretary's Office
 use only)
 Date:
 22/09/2009

To Secretary of Senate
 From Name(Dean): Faculty
 Dr. A. Dean Science and Environmental Studies
 Department the change relates to
 Computer Science
 Contact Person
 Dr. M. Benson

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
<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 change in course(s) which is/are required core course(s) for a major? | Yes
<input checked="" type="checkbox"/> | No
<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

Oct 1/09

Section 1

Description of the Proposed Calendar Change:

Updating COMP451 prerequisites, updating COMP0433, COMP3415

Rationale of the Proposed Calendar Change(s):
(Corresponding to Section 2 where required)

1

We now alternate the delivery of the courses COMP4433 and COMP4451 and consequently making COMP4433 a prerequisite for COMP4451 is not feasible.

2

Update of content description

3

Update content of COMP0433 to make it more current and a better fit for distance education delivery. Computer literacy is an increasingly important aspect of all levels from K12 to University and these revisions will provide an up to date course to help address these needs at Lakehead University by providing a broad introduction to the use of computers and Internet as tools for creativity, communications, programming and organizing information. The new course description goes beyond the Internet to cover more essential computer literacy topics including stand alone and applet programming with content designed for traditional as well as on line 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

<http://mycoursecalendar.lakeheadu.ca/pg144.html>

Computer Science 4451 Theory of Computing
Credit Weight: 0.5

Prerequisite(s): Computer Science 4433

Description: Abstract computation devices, finite automata, pushdown, and linear-bounded automata. Turing Machines, or equivalent, as transducers and as acceptors. Connections with classes of languages and term-rewriting systems. Deterministic and non-deterministic computability. Introduction to logic programming via resolution-unification algorithms.

Offering: 0-0; 3-0

Computer Science 4451 Theory of Computing
Credit Weight: 0.5

Prerequisite(s): Computer Science 2412, Mathematics 1281

Description: Abstract computation devices, finite automata, pushdown, and linear-bounded automata. Turing Machines, or equivalent, as transducers and as acceptors. Connections with classes of languages and term-rewriting systems. Deterministic and non-deterministic computability. Introduction to logic programming via resolution-unification algorithms.

Offering: 0-0; 3-0

2

<http://mycoursecalendar.lakeheadu.ca/pg144.html>

Computer Science 3415 Software Engineering
Credit Weight: 0.5

Prerequisite(s): Computer Science 2412 and 2477

Description: An introduction to the concepts of software engineering: software life cycle, project planning, cost estimation, software specification, implementation, verification and validation techniques, and software maintenance. Written and oral presentations will be an integral part of the course.

Offering: 3-1; 0-0

Computer Science 3415 Software Engineering
Credit Weight: 0.5

Prerequisite(s): Computer Science 2412 and 2477

Description: An introduction to a spectrum of software engineering concepts: software requirement and specification, project planning and design, software development and testing, software process management, and software maintenance. Instead of exploring details of all the above topics, we will focus on several topics of software design and software testing. Object-oriented methodology and UML will be used in this course. A team project and class discussion will be an integral part of the course.

Offering: 3-1; 0-0

<http://mycoursecalendar.lakeheadu.ca/pg144.html#819>

Computer Science 0433 Introduction to Internet Computing
Credit Weight: 0.5

Description: An introduction to Internet and its architecture, fundamental methods for employment of communications on the Internet. The emphasis is on the development of practical skills in Internet Communication; e.g. learning HTML and designing Home pages.

Offering: 2-2, or 2-2

Notes: Enrolment limit: 40 per lab

Computer Science 0433 Introduction to Computing and Internet Programming
Credit Weight: 0.5

Description: A computer literacy course designed to familiarize the learner with a variety of computer and Internet programming tools as well as computer concepts with emphasis on utilizing packaged programming utilities and pedagogical programming environments. The course emphasizes fundamental and elementary program design for both stand alone and Web applications.

Offering: 3-0; or 3-0

Section 3

The Faculty(ies) affected by the proposed calendar change

Department of Mathematical Sciences

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: ADAM VAN TUYL

Faculty: Math Sci / Sept 22, 2009

Date: ~~Sept 3~~
OCT 3 / 09

Signature of Dean 