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MEMORANDUM

Date: October 13, 2010

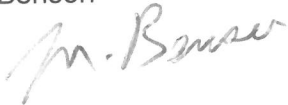
To: Dr. Andrew P. Dean, Dean Faculty of Science and Environmental Studies

From: Dr. M. Benson, Chair Department of Computer Science

Subject: Calendar change for Computer Science List of Program Electives

The attached change was approved at our Department meeting of October 13.

M. Benson



*approved Faculty S. & E.S.
Nov 15/10*

Request for Calendar Change Form

Tracking No:
 (Senate Secretary's Office
 use only)
 Date:
 14/09/2010

To	Secretary of Senate	
From	Name(Dean):	Faculty
	Dr. Andrew P. Dean	Science and Environmental Studies
	Department the change relates to	
	Computer Science	<i>Update Comp. Sci. pgm electives</i>
	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 type="checkbox"/> | No
<input checked="" 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: Update the list of program electives for Computer Science
Rationale of the Proposed Calendar Change(s): (Corresponding to Section 2 where required)
1 The list required updating to reflect current and planned offerings. Added a course from Software Engineering, deleted a number of Mathematics courses no longer offered (keeping Math 3373, as Mathematics plans on reactivating it.)

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/pg277.html>

Existing Entry

List of Program Electives

Applied Mathematics:

Mathematics 3331 - Optimization

Mathematics 3333 - Operations Research

Mathematics 3373 - Graph Theory

Mathematics 4273 - Logic in Mathematics and Computer Science

Mathematics 4275 - Set Theory and Computability

Computer Science:

Computer Science 4451 - Theory of Computing

Computer Science 4471 - Computer Graphics

Computer Science 4475 - Topics in Artificial Intelligence

Computer Science 4476 - Cryptography and Network Security

Computer Science 4478 - Object-Oriented Design and Methodology

Computer Science 4479 - Reading and Research in Computer Science

Numerical Analysis:

Mathematics 3351 - Applied Numerical Methods

Mathematics 3371 - Computational Linear Algebra and Numerical Approximation I

Mathematics 4351 - Computational Linear Algebra and Numerical Approximation II

Mathematics 4371 - Numerical Methods for Differential Equations

Physics:

Physics 2211 - Intermediate Electricity and Magnetism

Physics 3231 - Introductory Electronics

Physics 3611 - Computer Acquisition and Control

Proposed Entry

List of Program Electives

Applied Mathematics:

Mathematics 3331 - Optimization

Mathematics 3333 - Operations Research

Mathematics 3373 - Graph Theory

Computer Science:

Computer Science 4451 - Theory of Computing

Computer Science 4471 - Computer Graphics

Computer Science 4475 - Topics in Artificial Intelligence

Computer Science 4476 - Cryptography and Network Security

Computer Science 4478 - Object-Oriented Design and Methodology

Computer Science 4479 - Reading and Research in Computer Science

Numerical Analysis:

Mathematics 3351 - Applied Numerical Methods

Mathematics 3371 - Computational Linear Algebra and Numerical Approximation I

Physics:

Physics 2211 - Intermediate Electricity and Magnetism

Physics 3231 - Introductory Electronics

Physics 3611 - Computer Acquisition and Control

Engineering:

Engineering 4559 - Signal Processing for Software Engineers

Section 3

The Faculty(ies) affected by the proposed calendar change

Science & Environmental Studies (Mathematics), Faculty of Engineering (Re ENGI 4559)

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: Henri Saliba

Faculty: Engineering

Date: Nov. 1 / 2012

Signature of Dean



Section 3

The Faculty(ies) affected by the proposed calendar change

Science & Environmental Studies (Mathematics), Faculty of Engineering (Re ENGI 4559)

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: Andrew Dean

Faculty: SES


Date: Nov. 17, 2010

Signature of Dean



Adel 
(ADAM VAU TYL)

MATH

AGREE 

Nov 3, 2010