

Request for Calendar Change Form

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

Date:

To	Secretary of Senate	
From	Name(Dean):	Faculty
	<input type="text" value="Dr. Reino Pulkki"/>	<input style="width: 95%;" type="text" value="Faculty of Forestry and the Forest Enviro..."/>
	Department the change relates to	
	<input style="width: 95%;" type="text" value="Faculty of Forestry and the Forest Environment"/>	
	Contact Person	
	<input style="width: 95%;" type="text" value="Dr. Brian McLaren"/>	

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
<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 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

19/03/2009

Section 1
Description of the Proposed Calendar Change: Change to title and course content
Rationale of the Proposed Calendar Change(s): (Corresponding to Section 2 where required)
1 Change reflects modern content.
2 Change reflects modern content.
3 Change reflects tighter focus of course material based on instructor expertise.
4 Change reflects new focus of course material.
5 Change reflects new focus of course material.
6 This is a new course being offered geared toward the new trends in Forestry (from the many courses that have been deleted).

Section 2

<p>Existing Calendar Entries: (Page reference based on hard copy or URL based on electronic version of calendar)</p>	<p>Proposed Calendar Entries/Addition/ Deletion -If only addition, specify page number and placement in university calendar -If only deletion, write Deleted</p>
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1

329

Forestry 5770
Management Strategies for Forests
3-0; or 3-0
A study of the historical and present, national and international development of forest management. The relationship of present management systems in Canada compared to those of our competitors. An estimation of the future trend of management techniques. A lecture-seminar course with 50% of the mark for an application project and 50% for a final exam.
NOT OFFERED THIS YEAR

Forestry 5770
Management and Marketing Strategies
3-0; 0-0
A study of the fundamental principles of marketing management and an in-depth understanding of the present national and international market of forest products and equipment. Techniques of conducting market research and developing marketing intelligence for the forestry sector will be explored. A firm's marketing environment will be explored to develop a market coverage strategy over a value-added forest product's life cycle by using market segmentation, market targeting, and market positioning theories. Concepts of pricing decisions, distribution channels, integrated logistics management and marketing communication will be introduced.

2

Forestry 5261
Silviculture
2-3; 2-3
A lecture, seminar, laboratory and field course for advanced studies in applied silviculture. Studies will include the analysis and development of silvicultural systems and practices including harvesting, seeding behaviour and periodicity, site preparation, natural and artificial regeneration, weeding and the chemistry and use of herbicides, cleaning and thinning. Particular highlights of the course are the use and development of the Crop Planning Method and Regional Silviculture.

Forestry 5261
Advances in Silviculture
2-3; 0-0
Advanced silvicultural concepts and practices, concentrating on fundamental biological and ecological principles as they pertain to design and implementation of silvicultural systems. Material covered in lecture will assume previous coursework in silvicultural principles, forest ecology, and forest management.
OFFERED IN ALTERNATE YEARS

3

327

Forestry 5131
Topics in Forest Ecology

Forestry 5131
Biogeochemistry of Forest Systems

2-3; or 2-3

An advanced lecture and laboratory course in the ecology of forest trees and/or stands with emphasis on relationships pertinent to the establishment, maintenance and productivity of commercial forests. Each session of the course will include an intensive examination of one or two topics which will vary from year to year. Example topics include biogeochemical cycling, plantation ecology and soil microbiology. Potential students should consult with instructor regarding the current year's topics.

2-3; 0-0

The study of the storage and cycling of carbon, water, and nutrients in forested ecosystems. Impacts of disturbance (fire, harvest, climate change) will be examined as examples of mechanisms associated with ecosystems stability, resilience and recovery. Students will normally use literature and/or process-based models (e.g. CENTURY) as a framework for understanding ecosystem processes and for identifying gaps in our current knowledge. Students, collectively or individually, may have the opportunity to employ analytical techniques (e.g. nutrient analysis, tree hydraulic architecture) and to interpret pertinent data.

4

Forestry 5610
Forest Genetics I: Natural Variation
0-0;2-3

A study of the origin, nature and ecological significance of the genetic variation found in important Canadian tree species. An original laboratory project stressing modern methods of forest genetics research will be completed jointly by each class.

Forestry 5610
Forest Genetics I: Natural Variation
0-0; 2-3

A study of the origin, nature and ecological significance of the genetic variation found in important Canadian tree species. Topics include the maintenance and modeling of genetic variation and the impacts of climate change.
OFFERED IN ALTERNATE YEARS

5

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Forestry 5710
Tree Improvement I: First Generation
2-3; or 2-3

A study of the principles and methods used for the capture of useful components of genetic variation for the first generation improvement of Canadian tree species. Topics include the identification of breeding zones, establishment of seed zones, physiological basis of genetic variation in yield, selection criteria, selection strategies, ideotypes, and seed orchard design. A lab project(s) in one or more of the areas of experimental selection criteria, short term progeny testing, and computer assisted seed orchard design will be completed jointly by each class.

NOT OFFERED THIS YEAR

Forestry 5710
Forest Genetics II: Tree Improvement
0-0; 2-3

A study of the principles and methods used for the capture of useful components of genetic variation for improvement of Canadian tree species. Topics include the identification of seed zones and breeding zones, selection criteria and strategies, the breeding cycle, and the impacts of climate change.

OFFERED IN ALTERNATE YEARS

6

New course

Forestry

Plant Growth Analysis

2-3; 0-0

Plant growth analysis, demographic analysis and yield component analysis are three procedures and used to study relationships underlying plant growth and development. Fundamental principals governing whole plant growth and stand-level responses to environment will be reviewed. Major topics include: Determination of relative growth rates (RGR), variation in RGR, relative land output (RLO) and inverse yield-density relationships.

OFFERED IN ALTERNATE YEARS

7

329

Forestry 5850

Fibre Morphology

2-3; 0-0

The morphology of fibre and its variation within a standing tree in a nature stand and a man-made forest will be introduced. The impact of various silvicultural treatments on fibre quality for various forest products, including pulp and paper, will be discussed. Students will have to present a 20-minute seminar based on his/her literature review in the subject areas or a small project related to the fibre morphology study.

NOT OFFERED THIS YEAR

Forestry 5850

Fibre Morphology and Wood Ultrastructure

2-3; 0-0

The morphology of fibre and its variation within a standing tree in a nature stand and a man-made forest will be introduced. The impact of various silvicultural treatments on fibre quality for various forest products, including pulp and paper, will be discussed. Students will have to present a 20-minute seminar based on his/her literature review in the subject areas or a small project related to the fibre morphology study.

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 Dept./School/Faculty.

I agree to this calendar change proposal

Yes

No

Name:

Dr. Reino Pulkki

Faculty:

Faculty of Forestry and the Forest Environment

Date:

19/03/2009

Signature of Dean