



Lakehead University
Faculty of Science and Environmental Studies

REQUEST REPORT

Request Tracking Number: 2015-SCI-4704
Request Title: New Course - Biology 4218 - Fall 2016

[DeAcTerm[EffectiveDate]] [DeAc[RequestEffectiveDate]]
Request Status: In Workflow
 Request can't be split

Request Contents

Type	Title
1. New Course	Laboratory Methods of Environmental Monitoring

Request History

Workflow Step	Workflow Action	User	Change Made	Comments	Date
Initiator	Approved	Eleanor Maunula	No	Submitted to workflow	01/07/2015
Submission Review (Calendar Officer)	Approved	Margaret Anderson (Submission Review)	Yes	Adjusted start terms as discussed. Ready for workflow submission	01/07/2015

Supporting Documents

File Name	Uploaded By	Upload Date	Size
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Supporting Documents Audit Trail

File Name	User	Date	Action
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Notes

Date	User	Note
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1.	New Course	Biology 4218 - Laboratory Methods of Environmental Monitoring
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Course Details

Biology 4218 - Laboratory Methods of Environmental Monitoring Start Term: 2015-16 End Term: No Specified End Date

<u>Course Details</u>
Code Biology 4218
Title Laboratory Methods of Environmental Monitoring
Description Students will be trained in the ISO17025 accredited Lakehead University Environmental Laboratory for standard practices required to analyze water, sediment and toxicology samples. A day long field trip will be required to collect needed samples and take field measurements from an actual degraded environmental site. The collected water and sediment samples will be used for the environmental investigation. Topics covered will include QA/QC, toxicology statistical techniques, and water and sediment analytical procedures using colorimetry, chromatography, ICP spectroscopy and potentiometry. Students will gain actual hands on experience in assessing an environmental situation at the level expected from industry and regulatory agencies.
End Term No Specified End Date
Institution Lakehead University
Faculty Faculty of Science and Environmental Studies
CreditWeight 0.5
Rationale The course will provide students with training in an ISO17025 laboratory thus providing realistic exposure to environmental situations. The Environmental Laboratory conducts ISO17025 accredited tests, including those for water, animal tissue and toxicology, and is the only laboratory at Lakehead to have this distinction. This course will provide the key component for our proposed new program in Applied Environmental Biology.
Requiredor Elective Elective
Cross List No
Offering 0-3 or 0-3

Prerequisites
Biology 1130, Biology 1110, Chemistry 1110, Chemistry 1130
Corequisites
None
Notes
A course fee for laboratories will be required. Permission of the instructor is required.
SpecialTopicDropdown
No
GradeSchemePF
Other
EffectonEnrolmentINIT
It may reduce enrolment in other 3rd and 4th year courses in Biology.
EffectonEnrolmentOTHER
No.
AdditionalTeachingSpace
Yes. The course requires the use of the Environmental Laboratory and the Aquatic Toxicology Research Centre as well as trained ISO17025 personnel in those laboratories.
EffectonTeachingLoads
The teaching load will increase.
EffectonServices
There will be a demand but not from existing teaching support services. The need will be from the personnel in these labs.
DirectkindSupport
The course will require funds for the field trip (\$500.00), chemistry and toxicology supplies (\$500.00), equipment rental (\$250.00), and the payment for the Environmental Laboratory Technician for five hours per week @ \$40.00/hr for 11 weeks (\$2200.00).