



# Lakehead University Orillia

## REQUEST REPORT

**Request Tracking Number:** 2014-ORI-3033  
**Request Title:** HBASc - Environmental Sustainability Major

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

## Request Contents

Type	Title
1. New Version of a Degree	Honours BASc (Environmental Sustainability Major)

## Request History

Workflow Step	Workflow Action	User	Change Made	Comments	Date
Initiator	Approved	Carolyn Rimkey	Yes	Submitted to workflow	01/17/2014
Dean and Faculty Council Review Stage	Approved	Shelley Unwin	No	Approved	01/22/2014
Optional Dean-Orillia	Approved	Shelley Unwin	No	Approved	01/22/2014

## 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 Version of a Degree	HBASC.ENVS - Honours BAsc (Environmental Sustainability Major)
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### Degree Details

CURRENT VERSION	PROPOSED VERSION
HBASC.ENVS - Honours BAsc (Environmental Sustainability Major) <b>Start Term:</b> Fall 2013 <b>End Term:</b> No Specified End Date	HBASC.ENVS - Honours BAsc (Environmental Sustainability Major) <b>Start Term:</b> <del>Fall 2013</del> <i>F-W 2014-15</i> <b>End Term:</b> No Specified End Date

<u><i>Required Information</i></u>	
CURRENT VERSION	PROPOSED VERSION
<b>Institution Unit</b> Orillia	<b>Institution Unit</b> Orillia
<b>Degree Type</b> HBASC	<b>Degree Type</b> HBASC
<b>Major</b> ENVS	<b>Major</b> ENVS
<b>Minor</b>	<b>Minor</b>
<b>Specialization</b>	<b>Specialization</b>
<b>Rationale</b> Inquiry housekeeping changes (2013-2014) referred at 15Feb2013 Senate and approved at 14May2013 Senate meeting. In HBAsc (Environmental Sustainability Major): First Year (a) delete INTD 1033 and change to (b) ENSU 1033; Fourth Year, (c) change INTD 4010/4030 to INTD 4010/4030 or INTD 4901.	<b>Rationale</b> <del>Inquiry housekeeping changes (2013-2014) referred at 15Feb2013 Senate and approved at 14May2013 Senate meeting. In HBAsc (Environmental Sustainability Major): First Year (a) delete INTD 1033 and change to (b) ENSU 1033; Fourth Year, (c) change INTD 4010/4030 to INTD 4010/4030 or INTD 4901.</del> <i>1) Change "One half-course in Area 1 (Indigenous Learning recommended)" into "One half-course elective (Indigenous Learning recommended)" This program already has at least 3FCEs Area 1 courses built into its set of required courses. This satisfies the Area requirements for the program (Academic regulations 4). Therefore, specifying Area 1 as elective is not necessary. On the contrary, removing the Area restriction will give students more options for their electives. This will be a welcome change for students as they have only 4.5 FCE elective choices. Our preference to leave the wording "Indigenous Learning recommended" is to preserve the option for any aboriginal content in the program that students might enjoy. 2) A GIS course is a must in pretty much all angles of the Environmental Sciences. It offers wider options for students in their future careers. A variety of fields such as forest management, urban planning, engineering, municipal management, business etc. consider GIS as an</i>

	<p><i>essential tool. Further, students will have an opportunity to steer their course selection to get a certificate in GIS which would provide them with better employability. Geography 3251 will be added as an option in the same category as NRMT 2270. These courses are similar in content. GIS includes much more applications than what is covered in NRMT 2270 which is specific to forestry applications.</i></p>
<p><b>Requirements</b></p> <p>Four Year program A total of 20 full course equivalents (FCEs) is required for graduation. Students must take 15.5 FCEs of required courses as stipulated below. A total of 4.5 FCEs (see Program Regulations 9 and 10) of elective courses may be chosen from within or outside of the Department (see Recommended List of Electives below). Up to two FCEs of these electives may be taken from any faculty.</p> <p><b>First Year:</b></p> <ul style="list-style-type: none"> <li>(a) Interdisciplinary Studies 1010</li> <li>(b) Environmental Sustainability 1033</li> <li>(c) Biology 1110 and 1130</li> <li>(d) Natural Resources Management 1010</li> <li>(e) Geography 1120</li> <li>(f) Geology 1130</li> <li>(g) Mathematics 0210</li> <li>(h) One half-course in Area I (Indigenous Learning recommended)</li> </ul> <p><b>Second Year:</b></p> <ul style="list-style-type: none"> <li>(a) Environmental Sustainability 2033</li> <li>(b) Biology 2210 and 2711</li> <li>(c) Chemistry 2610</li> <li>(d) Economics 2212</li> <li>(e) Natural Resources Management 2054/Indigenous Learning 2054 and Natural Resources Management 2270</li> <li>(f) Geography 2331 and either Geography 2351 or 3313</li> <li>(g) Philosophy 2013</li> </ul> <p><b>Third Year:</b></p> <ul style="list-style-type: none"> <li>(a) Environmental Sustainability 3013, 3033, 3053, 3073</li> <li>(b) Biology 3610</li> <li>(c) Geography 3471</li> <li>(d) Political Science 3332</li> <li>(e) One and one-half FCE electives</li> </ul> <p><b>Fourth Year:</b></p> <ul style="list-style-type: none"> <li>(a) Interdisciplinary Studies 4010 and 4033, or Interdisciplinary Studies 4901</li> <li>(b) Environmental Sustainability 4013</li> <li>(c) Environmental Sustainability 4110 and Biology 4711</li> <li>(d) Two and one-half FCE electives</li> </ul> <p><b>RECOMMENDED LIST OF ELECTIVES</b> <b>Note:</b> Not all courses will be offered in every year.</p> <p>Anthropology 4111/Environmental Studies 4111 -</p>	<p><b>Requirements</b></p> <p>Four Year program A total of 20 full course equivalents (FCEs) is required for graduation. Students must take 15.5 FCEs of required courses as stipulated below. A total of 4.5 FCEs (see Program Regulations 9 and 10) of elective courses may be chosen from within or outside of the Department (see Recommended List of Electives below). Up to two FCEs of these electives may be taken from any faculty.</p> <p><b>First Year:</b></p> <ul style="list-style-type: none"> <li>(a) Interdisciplinary Studies 1010</li> <li>(b) Environmental Sustainability 1033</li> <li>(c) Biology 1110 and 1130</li> <li>(d) Natural Resources Management 1010</li> <li>(e) Geography 1120</li> <li>(f) Geology 1130</li> <li>(g) Mathematics 0210</li> <li>(h) One half-course</li> </ul> <p><del>in Area I</del></p> <p><i>elective</i> (Indigenous Learning recommended)</p> <p><b>Second Year:</b></p> <ul style="list-style-type: none"> <li>(a) Environmental Sustainability 2033</li> <li>(b) Biology 2210 and 2711</li> <li>(c) Chemistry 2610</li> <li>(d) Economics 2212</li> </ul> <p>(e) Natural Resources Management 2054/Indigenous Learning 2054 <del>and</del></p> <p>f) Natural Resources Management 2270 <del>(f)</del> OR <i>Geography 3251</i> (*<i>Geography 2xxx</i>)</p>

Ecological and Environmental Anthropology  
 Anthropology 4114/Environmental Studies 4114 -  
 Human Impacts on the Environment  
 Biology 3114 - Plant Ecology  
 Biology 3151 - Biogeography  
 Biology 3671 - Evolutionary Concepts  
 Biology 4115/Environmental Studies 4115 - Ecology  
 of Disturbed Habitats  
 Biology 4117 - Advances in Contemporary Ecology  
 Biology 4213/Natural Resources Management 4232 -  
 Principles of Fishery Management  
 Biology 4371 - Science Under Scrutiny  
 Biology 4430 - Wetland Ecology  
 Chemistry 1110 - Modern Chemistry I  
 Chemistry 1130 - Modern Chemistry II  
 English 1011 - Composition  
 English 1031 - Rhetoric  
 English 3911 - Special Topics (topic title:  
 Environmental Literature)  
 Geography 2251 - Geographical Inquiry and  
 Interpretation  
 Geography 3311/Environmental Studies 3311 -  
 Environmental Geomorphology  
 Geography 3331/Environmental Studies 3331 -  
 Environmental Climatology  
 Geography 3411/Environmental Studies 3411 -  
 Resource Management  
 Geography 3431/Environmental Studies 3431 -  
 Geography of Energy  
 Geography 3731 - Urban Residential Structure  
 Geography 4351/Environmental Studies 4351 -  
 Climatology: Climate Change  
 Geography 4371/Environmental Studies 4371 -  
 Climatology: Local and Microclimates  
 Geography 4771 - Sustainable Communities  
 Geology 2214 - Sediments and Sedimentary Rocks  
 Geology 3311/Environmental Studies 3312 -  
 Environmental Geology  
 Geology 3410/Environmental Studies 3410 -  
 Depositional Environments  
 History 2010 - Environmental History: A Global View  
 Indigenous Learning 3435/Environmental Studies  
 3435/Northern Studies 3435 - Native People and the  
 Land  
 Psychology 3211 - Environmental Psychology  
 Sociology 4517/Environmental Studies  
 4517/Anthropology 4517 - Society, Culture and  
 Nature

(g) Geography 2331 and either Geography 2351  
 or 3313  
 (e/h) Philosophy 2013

Third Year:  
 (a) Environmental Sustainability 3013, 3033, 3053,  
 3073  
 (b) Biology 3610  
 (c) Geography 3471  
 (d) Political Science 3332  
 (e) One and one-half FCE electives

Fourth Year:  
 (a) Interdisciplinary Studies 4010 and 4033, or  
 Interdisciplinary Studies 4901  
 (b) Environmental Sustainability 4013  
 (c) Environmental Sustainability 4110 and Biology  
 4711  
 (d) Two and one-half FCE electives

**RECOMMENDED LIST OF ELECTIVES**

Note:  
 Not all courses will be offered in every year.

Anthropology 4111/Environmental Studies 4111 -  
 Ecological and Environmental Anthropology  
 Anthropology 4114/Environmental Studies 4114 -  
 Human Impacts on the Environment  
 Biology 3114 - Plant Ecology  
 Biology 3151 - Biogeography  
 Biology 3671 - Evolutionary Concepts  
 Biology 4115/Environmental Studies 4115 - Ecology  
 of Disturbed Habitats  
 Biology 4117 - Advances in Contemporary Ecology  
 Biology 4213/Natural Resources Management 4232 -  
 Principles of Fishery Management  
 Biology 4371 - Science Under Scrutiny  
 Biology 4430 - Wetland Ecology  
 Chemistry 1110 - Modern Chemistry I  
 Chemistry 1130 - Modern Chemistry II  
 English 1011 - Composition  
 English 1031 - Rhetoric  
 English 3911 - Special Topics (topic title:  
 Environmental Literature)  
 Geography 2251 - Geographical Inquiry and  
 Interpretation  
 Geography 3311/Environmental Studies 3311 -  
 Environmental Geomorphology  
 Geography 3331/Environmental Studies 3331 -  
 Environmental Climatology  
 Geography 3411/Environmental Studies 3411 -  
 Resource Management  
 Geography 3431/Environmental Studies 3431 -  
 Geography of Energy  
 Geography 3731 - Urban Residential Structure  
 Geography 4351/Environmental Studies 4351 -  
 Climatology: Climate Change  
 Geography 4371/Environmental Studies 4371 -  
 Climatology: Local and Microclimates

	Geography 4771 - Sustainable Communities Geology 2214 - Sediments and Sedimentary Rocks Geology 3311/Environmental Studies 3312 - Environmental Geology Geology 3410/Environmental Studies 3410 - Depositional Environments History 2010 - Environmental History: A Global View Indigenous Learning 3435/Environmental Studies 3435/Northern Studies 3435 - Native People and the Land Psychology 3211 - Environmental Psychology Sociology 4517/Environmental Studies 4517/Anthropology 4517 - Society, Culture and Nature
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<b><u>Budgetary Considerations</u></b>	
<b>CURRENT VERSION</b>	<b>PROPOSED VERSION</b>
<b>Student Enrolment</b>	<b>Student Enrolment</b>
<b>Student Enrolment Other Units</b>	<b>Student Enrolment Other Units</b>
<b>Additional Resources</b>	<b>Additional Resources</b>
<b>Teaching Loads</b>	<b>Teaching Loads</b> <i>No.</i>
<b>TeachingSupport Services</b>	<b>TeachingSupport Services</b>
<b>Outside Support</b>	<b>Outside Support</b>