



**Lakehead University**  
**Faculty of Science and Environmental Studies**

**REQUEST REPORT**

**Request Tracking Number:** 2015-SCI-4731  
**Request Title:** changes to HBASC Environmental Sustainability

[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	01/12/2015

**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 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> 2014-15 <b>End Term:</b> No Specified End Date	HBASC.ENVS - Honours BAsC (Environmental Sustainability Major) <b>Start Term:</b> <del>2014</del> 2015-15 16 <b>End Term:</b> No Specified End Date

<u>Required Information</u>	
CURRENT VERSION	PROPOSED VERSION
<b>Institution Unit</b> Faculty of Science and Environmental Studies	<b>Institution Unit</b> Faculty of Science and Environmental Studies
<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> 1) Change “One half-course in Area I (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 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	<del>1) Change “One half-course in Area I (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 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</del>

<p>applications than what is covered in NRMT 2270 which is specific to forestry applications.</p>	<p><i>which is specific to forestry applications. Some housekeeping changes due to the creation of the new department and moving HBASc Environmental Sustainability program from the Dept. of IS.2. Creating new courses matching the expertise of current faculty.3. Replacing some existing courses with the proposed new courses to make the program more comprehensive at the same time not affecting the balance of electives/ mandatory courses much.</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 Academic 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 elective (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</li> <li>(f) Natural Resources Management 2270 or Geography 2232</li> <li>(g) Geography 2331 and either Geography 2351 or 3313</li> <li>(h) 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><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</p> <p><del>(see Academic Regulations 9 and 10)</del></p> <p>of elective courses may be chosen from within or outside of the Department (see Recommended List of Electives below). Up to</p> <p><del>two FCEs</del></p> <p>1 FCE of these electives may be taken from any faculty.</p> <p>First Year: (a)</p> <p><del>Interdisciplinary Studies 1010(b)</del></p> <p>Environmental Sustainability 1033 (</p> <p>e</p> <p>b) Biology 1110 and 1130 (</p> <p>d</p> <p>c) Natural Resources Management 1010 (</p> <p>e</p>

<p>Anthropology 4111/Environmental Studies 4111 - Ecological and Environmental Anthropology          Anthropology 4114/Environmental Studies 4114 - Human Impacts on the Environment          Biology 3114 - Plant Ecology I          Biology 3151 - Biogeography          Biology 3671 - Evolutionary Concepts          Biology 4115/Environmental Studies 4115 - Ecology of Disturbed Habitats          Biology 4117 - Advances in Contemporary Ecology          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 and Sustainability          Geography 3431/Environmental Studies 3431 - Geography of Energy          Geography 3731 - Urban Residential Structure          Geography 4351/Environmental Studies 4351 - Climatology: Climate Change          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</p>	<p>d) Geography 1120 (</p> <p>f</p> <p>e) Geology 1130 (</p> <p>g</p> <p>f) Mathematics 0210          (g) <i>Chemistry 2610</i>          (h) One half-course elective (Indigenous Learning recommended)</p> <p>Second Year:          (a) Environmental Sustainability 2033          (b) Biology 2210 and 2711          (c)</p> <p><del>Chemistry 2610 (d)</del></p> <p>Economics 2212 (</p> <p>e</p> <p>d) Natural Resources Management 2054/Indigenous Learning 2054 (</p> <p>f</p> <p>e)</p> <p><del>Natural Resources Management 2270 or</del></p> <p>Geography 2232 (</p> <p>g</p> <p>f) Geography 2331 or <i>Environmental Sustainability 2xxx</i> and either Geography 2351 or</p>
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3313  
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~~h) Philosophy 2013~~

*g) One FCE elective*

Third Year:

(a) Environmental Sustainability 3013</a>, 3033</a>, 3053</a>, 3073

(b) Biology 3610

(c) Geography 3471

(d)

~~Political Science 3332~~

*Environmental Sustainability 3xxx*

(e) One and one-half FCE electives

Fourth Year:

(a)

~~Interdisciplinary Studies~~

*Environmental Sustainability* 4010 and 4033, or

~~Interdisciplinary Studies~~

*Environmental Sustainability* 4901

(b) Environmental Sustainability 4013

(c) Environmental Sustainability 4110</a> and Biology 4711

(d)

~~Two and one-half FCE~~

*Environmental Sustainability 4xxx*

*(e) Two FCEs* electives

#### **RECOMMENDED LIST OF ELECTIVES**

##### **Note:**

Not all courses will be offered in every year.

Anthropology 4111/Environmental Studies 4111</a>  
- Ecological and Environmental Anthropology

	<p>Anthropology 4114/Environmental Studies 4114&lt;/a&gt;  - Human Impacts on the Environment  Biology 3114&lt;/a&gt; - Plant Ecology I  Biology 3151&lt;/a&gt; - Biogeography  Biology 3671&lt;/a&gt; - Evolutionary Concepts  Biology 4115/Environmental Studies 4115&lt;/a&gt; - Ecology of Disturbed Habitats  Biology 4117&lt;/a&gt; - Advances in Contemporary Ecology  Biology 4430&lt;/a&gt; - Wetland Ecology  Chemistry 1110&lt;/a&gt; - Modern Chemistry I  Chemistry 1130&lt;/a&gt; - Modern Chemistry II  English 1011&lt;/a&gt; - Composition  English 1031&lt;/a&gt; - Rhetoric  English 3911&lt;/a&gt; - Special Topics (topic title: Environmental Literature)  Geography 2251&lt;/a&gt; - Geographical Inquiry and Interpretation  Geography 3311/Environmental Studies 3311&lt;/a&gt; - Environmental Geomorphology  Geography 3331/Environmental Studies 3331&lt;/a&gt; - Environmental Climatology  Geography 3411/Environmental Studies 3411&lt;/a&gt; - Resource Management and Sustainability  Geography 3431/Environmental Studies 3431&lt;/a&gt; - Geography of Energy  Geography 3731&lt;/a&gt; - Urban Residential Structure  Geography 4351/Environmental Studies 4351&lt;/a&gt; - Climatology: Climate Change  Geography 4771&lt;/a&gt; - Sustainable Communities  Geology 2214&lt;/a&gt; - Sediments and Sedimentary Rocks  Geology 3311/Environmental Studies 3312&lt;/a&gt; - Environmental Geology  Geology 3410/Environmental Studies 3410&lt;/a&gt; - Depositional Environments  History 2010&lt;/a&gt; - Environmental History: A Global View  Indigenous Learning 3435/Environmental Studies 3435/Northern Studies 3435&lt;/a&gt; - Native People and the Land  Psychology 3211&lt;/a&gt; - Environmental Psychology  Sociology 4517/Environmental Studies 4517/Anthropology 4517&lt;/a&gt; - Society, Culture and Nature</p>
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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> <i>no</i>
<b>Student Enrolment Other Units</b>	<b>Student Enrolment Other Units</b> <i>no</i>
<b>Additional Resources</b>	<b>Additional Resources</b> <i>no</i>
<b>Teaching Loads</b>	<b>Teaching Loads</b>

No.	No.
<b>TeachingSupport Services</b>	<b>TeachingSupport Services</b> <i>no</i>
<b>Outside Support</b>	<b>Outside Support</b> <i>no</i>