



Lakehead University
Faculty of Science and Environmental Studies

REQUEST REPORT

Request Tracking Number: 2014-SCI-4613
Request Title: 3rd/4th Year Geography Course Requirements

[DeAcTerm[EffectiveDate]] [DeAc[RequestEffectiveDate]]
Request Status: In Workflow
 Request can be split

Request Contents

Type		Title
1.	New Version of a Degree	BA (Geography Major)
2.	New Version of a Degree	BSc (Geography Major)
3.	New Version of a Degree	Honours BA (Geography Major)
4.	New Version of a Degree	Honours BAsc (Geography Major)
5.	New Version of a Degree	Honours Bachelor of Environmental Studies (Geography Major)
6.	New Version of a Degree	Honours Bachelor of Environmental Science (Geography Major)
7.	New Version of a Degree	Honours BSc (Geography Major)
8.	New Version of a Degree	Honours BSc (Geography with Geology Minor)

Request History

Workflow Step	Workflow Action	User	Change Made	Comments	Date
Initiator	Approved	Jennifer McKee	Yes	Submitted to workflow	12/12/2014
Submission Review (Calendar Officer)	Approved	Margaret Anderson (Submission Review)	No	Ready for workflow submission. (Should also check HBES.GEOG.TRF.)	01/04/2015

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	BA.GEOG - BA (Geography Major)
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Degree Details

CURRENT VERSION	PROPOSED VERSION
BA.GEOG - BA (Geography Major) Start Term: F-W 2013-14 End Term: No Specified End Date	BA.GEOG - BA (Geography Major) Start Term: F-W 2013-14 2015-16 End Term: No Specified End Date

<u>Required Information</u>	
CURRENT VERSION	PROPOSED VERSION
Institution Unit Faculty of Science and Environmental Studies	Institution Unit Faculty of Science and Environmental Studies
Degree Type BA	Degree Type BA
Major GEOG	Major GEOG
Minor	Minor
Specialization	Specialization
Rationale	Rationale <i>The changes will allow us to be more flexible with course scheduling. We can maintain the same range of courses offered as in the past, with a smaller faculty complement – there will be no need to sacrifice the quality of our programs as a result of diminishing teaching resources. The changes will also make scheduling that much more easy in Orillia where the number of faculty are even lower than in Thunder Bay. Furthermore, the changes proposed are simply formalizing an existing practice of permitting students to take 4th year courses earlier but only with the permission of the Chair of the department – with these changes we will be able to cut down on the administrative paperwork for the Registrar's office and the departmental Chairperson.</i>
Requirements Three Year program First Year: (a) Geography 1140 (b) One full course equivalent (FCE) from English 1011, 1031, 1111, 1112 (c) One FCE elective from: Anthropology, Economics, Gerontology, Political Science, Psychology, Social Work, Sociology, Women's Studies 1100 or 3030	Requirements Three Year program First Year: (a) Geography 1140 (b) One full course equivalent (FCE) from English 1011, 1031, 1111, 1112 (c) One FCE elective from: Anthropology, Economics, Gerontology, Political Science, Psychology, Social

<p>(d) Two FCE electives</p> <p>Second Year: (a) Geography 2331, 2351, 2511, 2811 (b) Three FCE electives</p> <p>Third Year: (a) Two FCEs in Geography at the third year level (b) Three FCE electives</p>	<p>Work, Sociology, Women's Studies 1100 or 3030 (d) Two FCE electives</p> <p>Second Year: (a) Geography 2331, 2351, 2511, 2811 (b) Three FCE electives</p> <p>Third Year: (a) Two FCEs in Geography at the third <i>or fourth</i> year level (b) Three FCE electives</p>
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<u>Budgetary Considerations</u>	
CURRENT VERSION	PROPOSED VERSION
Student Enrolment	Student Enrolment <i>No, there will be no impact on student enrolment in any other program.</i>
Student Enrolment Other Units	Student Enrolment Other Units <i>No, there will be no impact on student enrolment in any program.</i>
Additional Resources	Additional Resources <i>No, there will be no requirement for additional resources of any kind.</i>
Teaching Loads	Teaching Loads <i>This will not affect existing teaching loads with the department.</i>
TeachingSupport Services	TeachingSupport Services <i>There will be no impact on the demand for teaching services.</i>
Outside Support	Outside Support <i>No outside support of any kind will be required.</i>

2.	New Version of a Degree	BSC.GEOG - BSc (Geography Major)
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Degree Details

CURRENT VERSION	PROPOSED VERSION
BSC.GEOG - BSc (Geography Major) Start Term: Fall 2014 End Term: No Specified End Date	BSC.GEOG - BSc (Geography Major) Start Term: Fall 2014 2015-16 End Term: No Specified End Date

<u>Required Information</u>	
CURRENT VERSION	PROPOSED VERSION
Institution Unit Faculty of Science and Environmental Studies	Institution Unit Faculty of Science and Environmental Studies
Degree Type BSC	Degree Type BSC
Major GEOG	Major GEOG
Minor	Minor
Specialization	Specialization
Rationale Many of our Geography degree programs require the existing course (Geography 3251) at the third year of the program. With moving it to second year of these same programs, thereby replacing Geography 2211 at year 2, we have replaced the requirement of Geography 3251 or 3523 at year 3 with a more general requirement that students choose one half-course in a list of third year Geography courses and one Natural Resources Management course, with the recommendation that students in Geography programs who are also pursuing the Certificate Program in Geomatics elect to take either Geography 3523 or Natural Resources Management 2270 from this listing.	Rationale Many of our Geography degree programs require the existing course (Geography 3251) at the third year of the program. With moving it to second year of these same programs, thereby replacing Geography 2211 at year 2, we have replaced the requirement of Geography 3251 or 3523 at year 3 with a more general requirement that students choose one half-course in a list of third year Geography courses and one Natural Resources Management course, with the recommendation that students in Geography programs who are also pursuing the Certificate Program in Geomatics elect to take either Geography 3523 or Natural Resources Management 2270 from this listing <i>The changes will allow us to be more flexible with course scheduling. We can maintain the same range of courses offered as in the past, with a smaller faculty complement – there will be no need to sacrifice the quality of our programs as a result of diminishing teaching resources. The changes will also make scheduling that much more easy in Orillia where the number of faculty are even lower than in Thunder Bay. Furthermore, the changes proposed are simply formalizing an existing practice of permitting students to take 4th year courses earlier but only with the permission of the Chair of the department – with these changes we will be able to cut down on the administrative paperwork for the Registrar's office and the departmental Chairperson.</i>

<p>Requirements</p> <p>Three Year program</p> <p>First Year: (a) Geography 1140 (b) One FCE from: Anthropology 1032; Biology 1110, 1130; Computer Science 1411, 1431; Geology 1111, 1131; Mathematics 1151 and 1152 (c) Two FCE electives in Science (Geography excluded) (d) One FCE elective</p> <p>Second Year: (a) Geography 2232, 2331, 2351, 2511 and 2811 (b) Two FCE electives in Science (Geography excluded) (c) One half-course elective</p> <p>Third Year: (a) Two FCEs in Geography at the third year level (b) Two FCE electives in Science (c) One FCE elective</p>	<p>Requirements</p> <p>Three Year program</p> <p>First Year: (a) Geography 1140 (b) One FCE from: Anthropology 1032; Biology 1110, 1130; Computer Science 1411, 1431; Geology 1111, 1131; Mathematics 1151 and 1152 (c) Two FCE electives in Science (Geography excluded) (d) One FCE elective</p> <p>Second Year: (a) Geography 2232, 2331, 2351, 2511 and 2811 (b) Two FCE electives in Science (Geography excluded) (c) One half-course elective</p> <p>Third Year: (a) Two FCEs in Geography at the third <i>or fourth</i> year level (b) Two FCE electives in Science (c) One FCE elective</p>
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<u>Budgetary Considerations</u>	
CURRENT VERSION	PROPOSED VERSION
<p>Student Enrolment</p> <p>The proposed changes to the Certificate Program in Geomatics are meant to increase its marketability and post-graduate vocational outcomes for students. The University may see some increase in enrollment in other programs if students elect to take their concurrently with the Certificate Program.</p>	<p>Student Enrolment</p> <p>The proposed changes to the Certificate Program in Geomatics are meant to increase its marketability and post-graduate vocational outcomes for students. The University may see some increase in enrollment in other programs if students elect to take their concurrently with the Certificate Program. <i>No, there will be no impact on student enrolment in any program.</i></p>
<p>Student Enrolment Other Units</p> <p>This program change has a subtle effect (one second year Geography course substituted for another) for students in the School of Outdoor Recreation, Parks & Tourism and in the Faculty of Education.</p>	<p>Student Enrolment Other Units</p> <p>This program change has a subtle effect (one second year Geography course substituted for another) for students in the School of Outdoor Recreation, Parks & Tourism and in the Faculty of Education. <i>No, there will be no impact on student enrolment in any program.</i></p>
<p>Additional Resources</p> <p>None</p>	<p>Additional Resources</p> <p>None <i>No, there will be no requirement for additional resources of any kind.</i></p>
<p>Teaching Loads</p> <p>The proposed change to the program has no need for additional faculty. Removing Geography 2211 as a required course in combination with the move of Geography 3251 to 2XXX frees up 0.5 FCE load from a Geography faculty member that can be re-deployed to other Departmental offerings.</p>	<p>Teaching Loads</p> <p>The proposed change to the program has no need for additional faculty. Removing Geography 2211 as a required course in combination with the move of Geography 3251 to 2XXX frees up 0.5 FCE load from a Geography faculty member that can be re-deployed to other Departmental offerings. <i>This will not affect the existing teaching loads within the department.</i></p>

<p>TeachingSupport Services</p> <p>The move of Geography 3251 to 2XXX and not-offering Geography 2211 for 2014-15 should offset the anticipated time allocations of our Technical Staff and Graduate Assistants to the Geography 2XXX course. In 2015-16, this delisting of Geography 2211 from Geography programs will somewhat lessen loads on our Technical Staff and GA allocations.</p>	<p>TeachingSupport Services</p> <p>The move of Geography 3251 to 2XXX and not-offering Geography 2211 for 2014-15 should offset the anticipated time allocations of our Technical Staff and Graduate Assistants to the Geography 2XXX course. In 2015-16, this delisting of Geography 2211 from Geography programs will somewhat lessen loads on our Technical Staff and GA- allocations <i>There will be no impact on the demand for teaching support services.</i></p>
<p>Outside Support</p> <p>None</p>	<p>Outside Support</p> <p>None <i>No outside support of any kind will be required.</i></p>

3.	New Version of a Degree	HBA.GEOG - Honours BA (Geography Major)
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Degree Details

CURRENT VERSION	PROPOSED VERSION
HBA.GEOG - Honours BA (Geography Major) Start Term: Fall 2014 End Term: No Specified End Date	HBA.GEOG - Honours BA (Geography Major) Start Term: Fall 2014 2015-16 End Term: No Specified End Date

<u>Required Information</u>	
CURRENT VERSION	PROPOSED VERSION
Institution Unit Faculty of Science and Environmental Studies	Institution Unit Faculty of Science and Environmental Studies
Degree Type HBA	Degree Type HBA
Major GEOG	Major GEOG
Minor	Minor
Specialization	Specialization
Rationale Many of our Geography degree programs require the existing course (Geography 3251) at the third year of the program. With moving it to second year of these same programs, thereby replacing Geography 2211 at year 2, we have replaced the requirement of Geography 3251 or 3523 at year 3 with a more general requirement that students choose one half-course in a list of third year Geography courses and one Natural Resources Management course, with the recommendation that students in Geography programs who are also pursuing the Certificate Program in Geomatics elect to take either Geography 3523 or Natural Resources Management 2270 from this listing.	Rationale Many of our Geography degree programs require the existing course (Geography 3251) at the third year of the program. With moving it to second year of these same programs, thereby replacing Geography 2211 at year 2, we have replaced the requirement of Geography 3251 or 3523 at year 3 with a more general requirement that students choose one half-course in a list of third year Geography courses and one Natural Resources Management course, with the recommendation that students in Geography programs who are also pursuing the Certificate Program in Geomatics elect to take either Geography 3523 or Natural Resources Management 2270 from this listing <i>The changes will allow us to be more flexible with course scheduling. We can maintain the same range of courses offered as in the past, with a smaller faculty complement – there will be no need to sacrifice the quality of our programs as a result of diminishing teaching resources. The changes will also make scheduling that much more easy in Orillia where the number of faculty are even lower than in Thunder Bay. Furthermore, the changes proposed are simply formalizing an existing practice of permitting students to take 4th year courses earlier but only with the permission of the Chair of the department – with these changes we will be able to cut down on the administrative paperwork for the Registrar's office and the departmental Chairperson.</i>

<p>Requirements</p> <p>Four Year program</p> <p>First Year: Same as for the BA (Geography Major)</p> <p>Second Year: (a) Geography 2232, 2251, 2271, 2331, 2351, 2511, 2811 (b) One and one-half FCE electives</p> <p>Note: It is recommended that students completing the Certificate Program in Geomatics should take Geography 3253 as a Geography elective (normally in Third Year) and take Natural Resources Management 2270 as an open elective (in Second or Third Year).</p> <p>Third Year: (a) Two and one-half FCEs in Geography at the third year level (c) Two and one-half FCE electives</p> <p>Fourth Year: (a) Three FCEs in Geography at the fourth year level (b) Two FCE electives</p>	<p>Requirements</p> <p>Four Year program</p> <p>First Year: Same as for the BA (Geography Major)</p> <p>Second Year: (a) Geography 2232, 2251, 2271, 2331, 2351, 2511, 2811 (b) One and one-half FCE electives</p> <p>Note: It is recommended that students completing the Certificate Program in Geomatics should take Geography 3253 as a Geography elective (normally in Third Year) and take Natural Resources Management 2270 as an open elective (in Second or Third Year).</p> <p>Third Year: (a) Two One and one-half FCEs in Geography at the third year level</p> <p><i>(b) One FCE in Geography at the fourth year level</i> (c) Two and one-half FCE electives</p> <p>Fourth Year: (a) Three FCEs One FCE in Geography at the <i>third or</i> fourth year level</p> <p><i>(b) Two FCEs in Geography at the fourth year level</i> (c) Two FCE electives</p>
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<u>Budgetary Considerations</u>	
CURRENT VERSION	PROPOSED VERSION
<p>Student Enrolment</p> <p>The proposed changes to the Certificate Program in Geomatics are meant to increase its marketability and post-graduate vocational outcomes for students. We may see some increase in enrollment in other Geography programs if students elect to take Geography concurrently with the Certificate Program.</p>	<p>Student Enrolment</p> <p>The proposed changes to the Certificate Program in Geomatics are meant to increase its marketability and post-graduate vocational outcomes for students. We may see some increase in enrollment in other Geography programs if students elect to take Geography concurrently with the Certificate Program. No, there will be no impact on student enrolment in any program.</p>
<p>Student Enrolment Other Units</p> <p>The revision to this program adds the possibility of a</p>	<p>Student Enrolment Other Units</p> <p>The revision to this program adds the possibility of a</p>

<p>student taking Natural Resources Management 2270 as part of their Geography degree program, particularly if a student is concurrently pursuing a Certificate Program in Geomatics. We anticipate 15 to 20 students pursue the Certificate Program in Geomatics annually. See note 6) below concerning support from Faculty of Natural Resources in offering the NRMT 2270 course and support from the Department of Geography and the Environment in the laboratory component of NRMT 2270.</p>	<p>student taking Natural Resources Management 2270 as part of their Geography degree program, particularly if a student is concurrently pursuing a Certificate Program in Geomatics. We anticipate 15 to 20 students pursue the Certificate Program in Geomatics annually. See note 6) below concerning support from Faculty of Natural Resources in offering the NRMT 2270 course and support from the Department of Geography and the Environment in the laboratory component of NRMT 2270. <i>No, there will be no impact on student enrolment in any program.</i></p>
<p>Additional Resources</p> <p>Fees to support annual software licenses for Geography 3253 and Geography 4231, which are part of this degree program, are discussed in the proposed changes specific to those courses.</p>	<p>Additional Resources</p> <p>Fees to support annual software licenses for Geography 3253 and Geography 4231, which are part of this degree program, are discussed in the proposed changes specific to those courses. <i>No, there will be no requirement for additional resources of any kind.</i></p>
<p>Teaching Loads</p> <p>The proposed change to the program has no need for additional faculty. Removing Geography 2211 as a required course in combination with the move of Geography 3251 to 2XXX frees up 0.5 FCE load from a Geography faculty member that can be re-deployed to other Departmental offerings or to developing and teaching a modular version of select Geomatics courses, particularly Remote Sensing (Geography 4231).</p>	<p>Teaching Loads</p> <p>The proposed change to the program has no need for additional faculty. Removing Geography 2211 as a required course in combination with the move of Geography 3251 to 2XXX frees up 0.5 FCE load from a Geography faculty member that can be re-deployed to other Departmental offerings or to developing and teaching a modular version of select Geomatics courses, particularly Remote Sensing (Geography 4231). <i>This will not affect the existing teaching loads within the department.</i></p>
<p>TeachingSupport Services</p> <p>The move of Geography 3251 to 2XXX and not-offering Geography 2211 for 2014-15 should offset the anticipated time allocations of our Technical Staff and Graduate Assistants to the Geography 2XXX course. In 2015-16, this delisting of Geography 2211 from Geography programs will somewhat lessen loads on our Technical Staff and GA allocations.</p>	<p>TeachingSupport Services</p> <p>The move of Geography 3251 to 2XXX and not-offering Geography 2211 for 2014-15 should offset the anticipated time allocations of our Technical Staff and Graduate Assistants to the Geography 2XXX course. In 2015-16, this delisting of Geography 2211 from Geography programs will somewhat lessen loads on our Technical Staff and GA allocations. <i>There will be no impact on the demand for teaching support services.</i></p>
<p>Outside Support</p> <p>The proposed addition of Natural Resources Management 2270 adds an important digital photogrammetry component that Geography alone would not have the infrastructure to offer. The Faculty of Natural Resources Management has run this course successfully for more than a decade and we see no reason to try to duplicate resources. The planned arrangement for NRMT 2270 is that Natural Resources Management will teach lecture and laboratory course content (as they do now) but The Department of Geography will contribute the time and expertise of one of our Technical Staff to assist in the delivery of the laboratory component of the course and particularly to support Geography and other students in the Certificate Program in Geomatics. The detail as to whether or not a unique laboratory section for students in the Certificate Program is still to be finalized. Like other laboratory-based geomatics courses, this course presents an on-going software maintenance cost and the Department of Geography has agreed to work with the Dean of Natural Resources Management to find creative ways to help with the annual software maintenance needs of the</p>	<p>Outside Support</p> <p>The proposed addition of Natural Resources Management 2270 adds an important digital photogrammetry component that Geography alone would not have the infrastructure to offer. The Faculty of Natural Resources Management has run this course successfully for more than a decade and we see no reason to try to duplicate resources. The planned arrangement for NRMT 2270 is that Natural Resources Management will teach lecture and laboratory course content (as they do now) but The Department of Geography will contribute the time and expertise of one of our Technical Staff to assist in the delivery of the laboratory component of the course and particularly to support Geography and other students in the Certificate Program in Geomatics. The detail as to whether or not a unique laboratory section for students in the Certificate Program is still to be finalized. Like other laboratory-based geomatics courses, this course presents an on-going software maintenance cost and the Department of Geography has agreed to work with the Dean of Natural Resources Management to find creative ways to help with the annual software maintenance needs of the</p>

laboratory space used to deliver this course.

~~laboratory space used to deliver this course.~~ *No
outside support of any kind will be required.*

4.	New Version of a Degree	HBASC.GEOG - Honours BAsC (Geography Major)
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Degree Details

CURRENT VERSION	PROPOSED VERSION
HBASC.GEOG - Honours BAsC (Geography Major) Start Term: 2014-15 End Term: No Specified End Date	HBASC.GEOG - Honours BAsC (Geography Major) Start Term: 2014 2015-15 16 End Term: No Specified End Date

<u>Required Information</u>	
CURRENT VERSION	PROPOSED VERSION
Institution Unit Faculty of Science and Environmental Studies	Institution Unit Faculty of Science and Environmental Studies
Degree Type HBASC	Degree Type HBASC
Major GEOG	Major GEOG
Minor	Minor
Specialization	Specialization
Rationale Many of our Geography degree programs require the existing course (Geography 3251) at the third year of the program. With moving it to second year of these same programs, thereby replacing Geography 2211 at year 2, we have replaced the requirement of Geography 3251 or 3523 at year 3 with a more general requirement that students choose one half-course in a list of third year Geography courses and one Natural Resources Management course, with the recommendation that students in Geography programs who are also pursuing the Certificate Program in Geomatics elect to take either Geography 3523 or Natural Resources Management 2270 from this listing.	Many of our Geography degree programs require the existing course (Geography 3251) at the third year of the program. With moving it to second year of these same programs, thereby replacing Geography 2211 at year 2, we have replaced the requirement of Geography 3251 or 3523 at year 3 with a more general requirement that students choose one half-course in a list of third year Geography courses and one Natural Resources Management course, with the recommendation that students in Geography programs who are also pursuing the Certificate Program in Geomatics elect to take either Geography 3523 or Natural Resources Management 2270 from this listing <p style="color: blue;">The changes will allow us to be more flexible with course scheduling. We can maintain the same range of courses offered as in the past, with a smaller faculty complement – there will be no need to sacrifice the quality of our programs as a result of diminishing teaching resources. The changes will also make scheduling that much more easy in Orillia where the number of faculty are even lower than in Thunder Bay. Furthermore, the changes proposed are simply formalizing an existing practice of permitting students to take 4th year courses earlier but only with the permission of the Chair of the department – with these changes we will be able to cut down on the administrative paperwork for the Registrar's office and the departmental Chairperson.</p>

<p>Requirements</p> <p>Four Year program</p> <p>First Year:</p> <ul style="list-style-type: none"> (a) Geography 1120 (b) Interdisciplinary Studies 1010 (c) One FCE in Area II (Geography excluded) (d) One FCE in Area I (e) One FCE elective (Area II recommended) (f) One half-course elective <p>Second Year:</p> <ul style="list-style-type: none"> (a) Geography 2232, 2251, 2271, 2331, 2351, 2511, 2811 (b) One FCE in Area I (c) One half-course elective <p>Note: It is recommended that students completing the Certificate Program in Geomatics should take Geography 3253 as a Geography elective (normally in Third Year) and take Natural Resources Management 2270 as an open elective (in Second or Third Year).</p> <p>Third Year:</p> <ul style="list-style-type: none"> (a) Two and one-half FCEs in Geography at the third year level (b) One FCE in Area I (c) One FCE elective (Area II recommended) (d) Interdisciplinary Studies 3010 <p>Fourth Year:</p> <ul style="list-style-type: none"> (a) Three FCEs in Geography at the fourth-year level (b) Interdisciplinary Studies 4010 and 4030, or Interdisciplinary Studies 4901 (c) One FCE elective 	<p>Requirements</p> <p>Four Year program</p> <p>First Year:</p> <ul style="list-style-type: none"> (a) Geography 1120 (b) Interdisciplinary Studies 1010 (c) One FCE in Area II (Geography excluded) (d) One FCE in Area I (e) One FCE elective (Area II recommended) (f) One half-course elective <p>Second Year:</p> <ul style="list-style-type: none"> (a) Geography 2232, 2251, 2271, 2331, 2351, 2511, 2811 (b) One FCE in Area I (c) One half-course elective <p>Note: It is recommended that students completing the Certificate Program in Geomatics should take Geography 3253 as a Geography elective (normally in Third Year) and take Natural Resources Management 2270 as an open elective (in Second or Third Year).</p> <p>Third Year:</p> <ul style="list-style-type: none"> (a) Two <i>One</i> and one-half FCEs in Geography at the third year level <p>(b) One FCE in <i>Geography at the fourth year level</i></p> <p><i>(b) One FCE in Area I</i></p> <p>(c) One FCE elective (Area II recommended) (d) Interdisciplinary Studies 3010</p> <p>Fourth Year:</p> <ul style="list-style-type: none"> (a) Three <i>One FCE in Geography at the third or fourth year level</i> <p><i>(b) Two</i> FCEs in Geography at the fourth-year level (b) Interdisciplinary Studies 4010 and 4030, or Interdisciplinary Studies 4901 (c) One FCE elective</p>
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<u>Budgetary Considerations</u>	
CURRENT VERSION	PROPOSED VERSION
Student Enrolment	Student Enrolment <i>No, there will be no impact on student enrolment in any program.</i>
Student Enrolment Other Units	Student Enrolment Other Units <i>No, there will be no impact on student enrolment in any program.</i>
Additional Resources	Additional Resources <i>No, there will be no requirement for additional resources of any kind.</i>
Teaching Loads	Teaching Loads <i>This will not affect the existing teaching loads within the department.</i>
TeachingSupport Services	TeachingSupport Services <i>There will be no impact on the demand for teaching support services.</i>
Outside Support	Outside Support <i>No outside support of any kind will be required.</i>

5.	New Version of a Degree	HBES.GEOG - Honours Bachelor of Environmental Studies (Geography Major)
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Degree Details

CURRENT VERSION	PROPOSED VERSION
HBES.GEOG - Honours Bachelor of Environmental Studies (Geography Major) Start Term: 2014-15 End Term: No Specified End Date	HBES.GEOG - Honours Bachelor of Environmental Studies (Geography Major) Start Term: 2014 2015-15 16 End Term: No Specified End Date

<u>Required Information</u>	
CURRENT VERSION	PROPOSED VERSION
Institution Unit Faculty of Science and Environmental Studies	Institution Unit Faculty of Science and Environmental Studies
Degree Type HBES	Degree Type HBES
Major GEOG	Major GEOG
Minor	Minor
Specialization	Specialization
Rationale #2012-SCI-296 (replace ENST 1120 with ENST 1140) (referred 18Jan2013 and approved 25Apr2013) plus #2012-SCI-242 (discontinue ENST4800) and #2012-SCI-243 (add new ENST 4810) (referred 18Jan2013 and approved 22Mar2013) plus #2012-SCI-293 (add new WATE 3094) (referred 18Jan2013 and approved 25Apr2013). Associated program changes to HBES (Geography Major). Include changes proposed in 2013-SCI-2985 (Associated program changes as result of rename Mapping Sciences Certificate as Certificate Program in Geomatics #2013-SCI-3086).	Rationale #2012-SCI-296 (replace ENST 1120 with ENST 1140) (referred 18Jan2013 and approved 25Apr2013) plus #2012-SCI-242 (discontinue ENST4800) and #2012-SCI-243 (add new ENST 4810) (referred 18Jan2013 and approved 22Mar2013) plus #2012-SCI-293 (add new WATE 3094) (referred 18Jan2013 and approved 25Apr2013). Associated program changes to HBES (Geography Major). Include changes proposed in 2013-SCI-2985 (Associated program changes as result of rename Mapping Sciences Certificate as Certificate Program in Geomatics #2013-SCI-3086). The changes will allow us to be more flexible with course scheduling. We can maintain the same range of courses offered as in the past, with a smaller faculty complement – there will be no need to sacrifice the quality of our programs as a result of diminishing teaching resources. The changes will also make scheduling that much more easy in Orillia where the number of faculty are even lower than in Thunder Bay. Furthermore, the changes proposed are simply formalizing an existing practice of permitting students to take 4th year courses earlier but only with the permission of the Chair of the department – with these changes we will be able to

	<p><i>cut down on the administrative paperwork for the Registrar's office and the departmental Chairperson.</i></p>
<p>Requirements</p> <p>Four Year program</p> <p>First Year: (a) Environmental Studies 1140 (b) One FCE from: Biology, Chemistry, Geology, Physics (c) One FCE from History, Indigenous Learning, Philosophy (d) One FCE from: Economics, Political Science, Sociology (e) One FCE from English 1011, 1031, 1111, 1112</p> <p>Second Year: (a) Environmental Studies 2013 and 2210 (b) One FCE Environmental Studies elective (Science or Arts Stream) (c) Geography 2232, 2251, 2271, 2331, 2351 (d) Geography 2511 or 2811</p> <p>Note: It is recommended that students completing the Certificate Program in Geomatics should take Geography 3253 as a Geography elective (normally in Third Year) and take Natural Resources Management 2270 as an open elective (in Second or Third Year).</p> <p>Third Year: (a) Environmental Studies 3094 (b) One FCE Environmental Studies elective (Arts Stream) (c) One half-course Environmental Studies elective (Science or Arts Stream) (d) Two and one-half FCEs in Geography at the third year level (e) One half-course elective</p> <p>Fourth Year: (a) Environmental Studies 4810 (b) Three FCEs in Geography at the fourth year level (c) One and one-half FCE electives</p>	<p>Requirements</p> <p>Four Year program</p> <p>First Year: (a) Environmental Studies 1140 (b) One FCE from: Biology, Chemistry, Geology, Physics (c) One FCE from History, Indigenous Learning, Philosophy (d) One FCE from: Economics, Political Science, Sociology (e) One FCE from English 1011, 1031, 1111, 1112</p> <p>Second Year: (a) Environmental Studies 2013 and 2210 (b) One FCE Environmental Studies elective (Science or Arts Stream) (c) Geography 2232, 2251, 2271, 2331, 2351 (d) Geography 2511 or 2811</p> <p>Note: It is recommended that students completing the Certificate Program in Geomatics should take Geography 3253 as a Geography elective (normally in Third Year) and take Natural Resources Management 2270 as an open elective (in Second or Third Year).</p> <p>Third Year: (a) Environmental Studies 3094 (b) One FCE Environmental Studies elective (Arts Stream) (c) One half-course Environmental Studies elective (Science or Arts Stream) (d) Two <i>One</i> and one-half FCEs in Geography at the third year level</p> <p>(e) <i>One FCE in Geogaphy at the fourth year level</i> (f) One half-course elective</p> <p>Fourth Year: (a) Environmental Studies 4810</p> <p>(b) Three <i>One FCE in Geography at the third year level</i> (c) <i>Two</i> FCEs in Geography at the fourth year level (d) ed One and one-half FCE electives</p>

<u>Budgetary Considerations</u>	
CURRENT VERSION	PROPOSED VERSION
Student Enrolment No. This is only a minor change.	Student Enrolment No. This is only a minor change. , there will be no impact on student enrolment in any program.
Student Enrolment Other Units No. This is only a minor change.	Student Enrolment Other Units No. This is only a minor change. , there will be no impact on student enrolment in any program.
Additional Resources No. This is only a minor change.	Additional Resources No. This is only a minor change. , there will be no requirement for additional resources of any kind.
Teaching Loads No. This is only a minor change.	Teaching Loads No. This is only a minor change. This will not affect the existing teaching loads within the department.
TeachingSupport Services No. This is only a minor change.	TeachingSupport Services No. This is only a minor change. There will be no impact on the demand for teaching support services.
Outside Support No. This is only a minor change.	Outside Support No. This is only a minor change. outside support of any kind will be required.

6.	New Version of a Degree	HBESC.GEOG - Honours Bachelor of Environmental Science (Geography Major)
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Degree Details

CURRENT VERSION	PROPOSED VERSION
HBESC.GEOG - Honours Bachelor of Environmental Science (Geography Major) Start Term: Fall 2014 End Term: No Specified End Date	HBESC.GEOG - Honours Bachelor of Environmental Science (Geography Major) Start Term: Fall 2014 2015-16 End Term: No Specified End Date

<u>Required Information</u>	
CURRENT VERSION	PROPOSED VERSION
Institution Unit Faculty of Science and Environmental Studies	Institution Unit Faculty of Science and Environmental Studies
Degree Type HBESC	Degree Type HBESC
Major GEOG	Major GEOG
Minor	Minor
Specialization	Specialization
Rationale Many of our Geography degree programs require the existing course (Geography 3251) at the third year of the program. With moving it to second year of these same programs, thereby replacing Geography 2211 at year 2, we have replaced the requirement of Geography 3251 or 3523 at year 3 with a more general requirement that students choose one half-course in a list of third year Geography courses and one Natural Resources Management course, with the recommendation that students in Geography programs who are also pursuing the Certificate Program in Geomatics elect to take either Geography 3523 or Natural Resources Management 2270 from this listing.	Rationale Many of our Geography degree programs require the existing course (Geography 3251) at the third year of the program. With moving it to second year of these same programs, thereby replacing Geography 2211 at year 2, we have replaced the requirement of Geography 3251 or 3523 at year 3 with a more general requirement that students choose one half-course in a list of third year Geography courses and one Natural Resources Management course, with the recommendation that students in Geography programs who are also pursuing the Certificate Program in Geomatics elect to take either Geography 3523 or Natural Resources Management 2270 from this listing. <i>The changes will allow us to be more flexible with course scheduling. We can maintain the same range of courses offered as in the past, with a smaller faculty complement – there will be no need to sacrifice the quality of our programs as a result of diminishing teaching resources. The changes will also make scheduling that much more easy in Orillia where the number of faculty are even lower than in Thunder Bay. Furthermore, the changes proposed are simply formalizing an existing practice of permitting students to take 4th year courses earlier but only with the permission of the Chair of the department – with these changes we will be able to</i>

	<p><i>cut down on the administrative paperwork for the Registrar's office and the departmental Chairperson.</i></p>
<p>Requirements</p> <p>Four Year program</p> <p>First Year: (a) Environmental Studies 1140 (b) Two FCEs from: Biology, Chemistry, Geology, Physics (c) One FCE from: Anthropology, Economics, English, History, Indigenous Learning, Philosophy, Political Science, Sociology (d) Mathematics 1151 and 1152 or Physics 1113 and 1133</p> <p>Second Year: (a) Environmental Studies 2013 and 2210 (b) One FCE Environmental Studies elective (Science Stream) (c) Geography 2232, 2251, 2271, 2331, 2351 (d) Geography 2511 or 2811</p> <p>Note: It is recommended that students completing the Certificate Program in Geomatics should take Geography 3253 as a Geography elective (normally in Third Year) and take Natural Resources Management 2270 as an open elective (in Second or Third Year).</p> <p>Third Year: (a) Environmental Studies 3094 (b) One FCE Environmental Studies elective (Science Stream) (c) One half-course Environmental Studies elective (Science or Arts Stream) (d) Two and one-half FCEs in Geography at the third year level (f) One half-course elective</p> <p>Fourth Year: (a) Environmental Studies 4810 (b) Three FCEs in Geography at the fourth year level (c) One and one-half FCE electives</p>	<p>Requirements</p> <p>Four Year program</p> <p>First Year: (a) Environmental Studies 1140 (b) Two FCEs from: Biology, Chemistry, Geology, Physics (c) One FCE from: Anthropology, Economics, English, History, Indigenous Learning, Philosophy, Political Science, Sociology (d) Mathematics 1151 and 1152 or Physics 1113 and 1133</p> <p>Second Year: (a) Environmental Studies 2013 and 2210 (b) One FCE Environmental Studies elective (Science Stream) (c) Geography 2232, 2251, 2271, 2331, 2351 (d) Geography 2511 or 2811</p> <p>Note: It is recommended that students completing the Certificate Program in Geomatics should take Geography 3253 as a Geography elective (normally in Third Year) and take Natural Resources Management 2270 as an open elective (in Second or Third Year).</p> <p>Third Year: (a) Environmental Studies 3094 (b) One FCE Environmental Studies elective (Science Stream) (c) One half-course Environmental Studies elective (Science or Arts Stream) (d) Two <i>One</i> and one-half FCEs in Geography at the third year level</p> <p><i>(e) One FCE in Geography at the fourth year level</i> (f) One half-course elective</p> <p>Fourth Year: (a) Environmental Studies 4810</p> <p><i>(b) Three FCEs One FCE in Geography at the <i>third or fourth</i> year level</i> <i>(c) Two FCEs in Geography at the fourth year level</i> <i>(d) One and one-half FCE electives</i></p>

<u>Budgetary Considerations</u>	
CURRENT VERSION	PROPOSED VERSION
<p>Student Enrolment</p> <p>The proposed changes to the Certificate Program in Geomatics are meant to increase its marketability and post-graduate vocational outcomes for students. We may see some increase in enrollment in other Geography programs if students elect to take Geography concurrently with the Certificate Program.</p>	<p>Student Enrolment</p> <p>The proposed changes to the Certificate Program in Geomatics are meant to increase its marketability and post-graduate vocational outcomes for students. We may see some increase in enrollment in other Geography programs if students elect to take Geography concurrently with the Certificate Program. <i>No, there will be no impact on student enrolment in any program.</i></p>
<p>Student Enrolment Other Units</p> <p>The revision to this program adds the possibility of a student taking Natural Resources Management 2270 as part of their Geography degree program, particularly if a student is concurrently pursuing a Certificate Program in Geomatics. We anticipate 15 to 20 students pursue the Certificate Program in Geomatics annually. See note 6) below concerning support from Faculty of Natural Resources in offering the NRMT 2270 course and support from the Department of Geography and the Environment in the laboratory component of NRMT 2270.</p>	<p>Student Enrolment Other Units</p> <p>The revision to this program adds the possibility of a student taking Natural Resources Management 2270 as part of their Geography degree program, particularly if a student is concurrently pursuing a Certificate Program in Geomatics. We anticipate 15 to 20 students pursue the Certificate Program in Geomatics annually. See note 6) below concerning support from Faculty of Natural Resources in offering the NRMT 2270 course and support from the Department of Geography and the Environment in the laboratory component of NRMT 2270. <i>No, there will be no impact on student enrolment in any program.</i></p>
<p>Additional Resources</p> <p>Fees to support annual software licenses for Geography 3253 and Geography 4231, which are part of this degree program, are discussed in the proposed changes specific to those courses.</p>	<p>Additional Resources</p> <p>Fees to support annual software licenses for Geography 3253 and Geography 4231, which are part of this degree program, are discussed in the proposed changes specific to those courses. <i>No, there will be no requirement for additional resources of any kind.</i></p>
<p>Teaching Loads</p> <p>The proposed change to the program has no need for additional faculty. Removing Geography 2211 as a required course in combination with the move of Geography 3251 to 2XXX frees up 0.5 FCE load from a Geography faculty member that can be re-deployed to other Departmental offerings or to developing and teaching a modular version of select Geomatics courses, particularly Remote Sensing (Geography 4231).</p>	<p>Teaching Loads</p> <p>The proposed change to the program has no need for additional faculty. Removing Geography 2211 as a required course in combination with the move of Geography 3251 to 2XXX frees up 0.5 FCE load from a Geography faculty member that can be re-deployed to other Departmental offerings or to developing and teaching a modular version of select Geomatics courses, particularly Remote Sensing (Geography 4231). <i>This will not affect the existing teaching loads within the department.</i></p>
<p>TeachingSupport Services</p> <p>The move of Geography 3251 to 2XXX and not-offering Geography 2211 for 2014-15 should offset the anticipated time allocations of our Technical Staff and Graduate Assistants to the Geography 2XXX course. In 2015-16, this delisting of Geography 2211 from Geography programs will somewhat lessen loads on our Technical Staff and GA allocations.</p>	<p>TeachingSupport Services</p> <p>The move of Geography 3251 to 2XXX and not-offering Geography 2211 for 2014-15 should offset the anticipated time allocations of our Technical Staff and Graduate Assistants to the Geography 2XXX course. In 2015-16, this delisting of Geography 2211 from Geography programs will somewhat lessen loads on our Technical Staff and GA allocations. <i>There will be no impact on the demand for teaching support services.</i></p>
<p>Outside Support</p> <p>The proposed addition of Natural Resources Management 2270 adds an important digital photogrammetry component that Geography alone would not have the infrastructure to offer. The Faculty of Natural Resources Management has run this course successfully for more than a decade and</p>	<p>Outside Support</p> <p>The proposed addition of Natural Resources Management 2270 adds an important digital photogrammetry component that Geography alone would not have the infrastructure to offer. The Faculty of Natural Resources Management has run this course successfully for more than a decade and we</p>

we see no reason to try to duplicate resources. The planned arrangement for NRMT 2270 is that Natural Resources Management will teach lecture and laboratory course content (as they do now) but The Department of Geography will contribute the time and expertise of one of our Technical Staff to assist in the delivery of the laboratory component of the course and particularly to support Geography and other students in the Certificate Program in Geomatics. The detail as to whether or not a unique laboratory section for students in the Certificate Program is still to be finalized. Like other laboratory-based geomatics courses, this course presents an on-going software maintenance cost and the Department of Geography has agreed to work with the Dean of Natural Resources Management to find creative ways to help with the annual software maintenance needs of the laboratory space used to deliver this course.

~~see no reason to try to duplicate resources. The planned arrangement for NRMT 2270 is that Natural Resources Management will teach lecture and laboratory course content (as they do now) but The Department of Geography will contribute the time and expertise of one of our Technical Staff to assist in the delivery of the laboratory component of the course and particularly to support Geography and other students in the Certificate Program in Geomatics. The detail as to whether or not a unique laboratory section for students in the Certificate Program is still to be finalized. Like other laboratory-based geomatics courses, this course presents an on-going software maintenance cost and the Department of Geography has agreed to work with the Dean of Natural Resources Management to find creative ways to help with the annual software maintenance needs of the laboratory space used to deliver this course.~~
No outside support of any kind will be required.

7.	New Version of a Degree	HBSC.GEOG - Honours BSc (Geography Major)
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Degree Details

CURRENT VERSION	PROPOSED VERSION
HBSC.GEOG - Honours BSc (Geography Major) Start Term: Fall 2014 End Term: No Specified End Date	HBSC.GEOG - Honours BSc (Geography Major) Start Term: Fall 2014 2015-16 End Term: No Specified End Date

<u>Required Information</u>	
CURRENT VERSION	PROPOSED VERSION
Institution Unit Faculty of Science and Environmental Studies	Institution Unit Faculty of Science and Environmental Studies
Degree Type HBSC	Degree Type HBSC
Major GEOG	Major GEOG
Minor	Minor
Specialization	Specialization
Rationale Many of our Geography degree programs require the existing course (Geography 3251) at the third year of the program. With moving it to second year of these same programs, thereby replacing Geography 2211 at year 2, we have replaced the requirement of Geography 3251 or 3523 at year 3 with a more general requirement that students choose one half-course in a list of third year Geography courses and one Natural Resources Management course, with the recommendation that students in Geography programs who are also pursuing the Certificate Program in Geomatics elect to take either Geography 3523 or Natural Resources Management 2270 from this listing.	Many of our Geography degree programs require the existing course (Geography 3251) at the third year of the program. With moving it to second year of these same programs, thereby replacing Geography 2211 at year 2, we have replaced the requirement of Geography 3251 or 3523 at year 3 with a more general requirement that students choose one half-course in a list of third year Geography courses and one Natural Resources Management course, with the recommendation that students in Geography programs who are also pursuing the Certificate Program in Geomatics elect to take either Geography 3523 or Natural Resources Management 2270 from this listing <p style="color: blue;">The changes will allow us to be more flexible with course scheduling. We can maintain the same range of courses offered as in the past, with a smaller faculty complement – there will be no need to sacrifice the quality of our programs as a result of diminishing teaching resources. The changes will also make scheduling that much more easy in Orillia where the number of faculty are even lower than in Thunder Bay. Furthermore, the changes proposed are simply formalizing an existing practice of permitting students to take 4th year courses earlier but only with the permission of the Chair of the department – with these changes we will be able to cut down on the administrative paperwork for the Registrar's office and the departmental Chairperson.</p>

<p>Requirements</p> <p>Four Year program</p> <p>First Year: Same as for the BSc (Geography Major)</p> <p>Second Year: (a) Geography 2232, 2251, 2271, 2331, 2351, 2511, 2811 (b) One and one-half FCE electives</p> <p>Note: It is recommended that students completing the Certificate Program in Geomatics should take Geography 3253 as a Geography elective (normally in Third Year) and take Natural Resources Management 2270 as an open elective (in Second or Third Year).</p> <p>Third Year: (a) Two and one-half FCEs in Geography at the third year level (b) One FCE elective in Science (Geography excluded) (c) One and one-half FCE electives</p> <p>Fourth Year: (a) Three FCEs in Geography at the fourth year level (b) Two FCE electives in Science</p>	<p>Requirements</p> <p>Four Year program</p> <p>First Year: Same as for the BSc (Geography Major)</p> <p>Second Year: (a) Geography 2232, 2251, 2271, 2331, 2351, 2511, 2811 (b) One and one-half FCE electives</p> <p>Note: It is recommended that students completing the Certificate Program in Geomatics should take Geography 3253 as a Geography elective (normally in Third Year) and take Natural Resources Management 2270 as an open elective (in Second or Third Year).</p> <p>Third Year: (a) Two One and one-half FCEs in Geography at the third year level</p> <p>(b) One FCE <i>in Geography at the fourth year level</i> (c) One FCE elective in Science (Geography excluded) (ed) One and one-half FCE electives</p> <p>Fourth Year: (a) Three FCEs One FCE in Geography at the <i>third or</i> fourth year level</p> <p>(b) Two <i>FCEs in Geography at the fourth year level</i> (c) Two FCE electives in Science</p>
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<u>Budgetary Considerations</u>	
CURRENT VERSION	PROPOSED VERSION
<p>Student Enrolment</p> <p>The proposed changes to the Certificate Program in Geomatics are meant to increase its marketability and post-graduate vocational outcomes for students. We may see some increase in enrollment in other Geography programs if students elect to take Geography concurrently with the Certificate Program.</p>	<p>Student Enrolment</p> <p>The proposed changes to the Certificate Program in Geomatics are meant to increase its marketability and post-graduate vocational outcomes for students. We may see some increase in enrollment in other Geography programs if students elect to take Geography concurrently with the Certificate Program. No, there will be no impact on student enrolment in any program.</p>
<p>Student Enrolment Other Units</p>	<p>Student Enrolment Other Units</p>

<p>The revision to this program adds the possibility of a student taking Natural Resources Management 2270 as part of their Geography degree program, particularly if a student is concurrently pursuing a Certificate Program in Geomatics. We anticipate 15 to 20 students pursue the Certificate Program in Geomatics annually. See note 6) below concerning support from Faculty of Natural Resources in offering the NRMT 2270 course and support from the Department of Geography and the Environment in the laboratory component of NRMT 2270.</p>	<p>The revision to this program adds the possibility of a student taking Natural Resources Management 2270 as part of their Geography degree program, particularly if a student is concurrently pursuing a Certificate Program in Geomatics. We anticipate 15 to 20 students pursue the Certificate Program in Geomatics annually. See note 6) below concerning support from Faculty of Natural Resources in offering the NRMT 2270 course and support from the Department of Geography and the Environment in the laboratory component of NRMT 2270. <i>No, there will be no impact on student enrolment in any program.</i></p>
<p>Additional Resources</p> <p>Fees to support annual software licenses for Geography 3253 and Geography 4231, which are part of this degree program, are discussed in the proposed changes specific to those courses.</p>	<p>Additional Resources</p> <p>Fees to support annual software licenses for Geography 3253 and Geography 4231, which are part of this degree program, are discussed in the proposed changes specific to those courses. <i>No, there will be no requirement for additional resources of any kind.</i></p>
<p>Teaching Loads</p> <p>The proposed change to the program has no need for additional faculty. Removing Geography 2211 as a required course in combination with the move of Geography 3251 to 2XXX frees up 0.5 FCE load from a Geography faculty member that can be re-deployed to other Departmental offerings or to developing and teaching a modular version of select Geomatics courses, particularly Remote Sensing (Geography 4231).</p>	<p>Teaching Loads</p> <p>The proposed change to the program has no need for additional faculty. Removing Geography 2211 as a required course in combination with the move of Geography 3251 to 2XXX frees up 0.5 FCE load from a Geography faculty member that can be re-deployed to other Departmental offerings or to developing and teaching a modular version of select Geomatics courses, particularly Remote Sensing (Geography 4231). <i>This will not affect the existing teaching loads within the department.</i></p>
<p>TeachingSupport Services</p> <p>The move of Geography 3251 to 2XXX and not-offering Geography 2211 for 2014-15 should offset the anticipated time allocations of our Technical Staff and Graduate Assistants to the Geography 2XXX course. In 2015-16, this delisting of Geography 2211 from Geography programs will somewhat lessen loads on our Technical Staff and GA allocations.</p>	<p>TeachingSupport Services</p> <p>The move of Geography 3251 to 2XXX and not-offering Geography 2211 for 2014-15 should offset the anticipated time allocations of our Technical Staff and Graduate Assistants to the Geography 2XXX course. In 2015-16, this delisting of Geography 2211 from Geography programs will somewhat lessen loads on our Technical Staff and GA allocations. <i>There will be no impact on the demand for teaching support services.</i></p>
<p>Outside Support</p> <p>The proposed addition of Natural Resources Management 2270 adds an important digital photogrammetry component that Geography alone would not have the infrastructure to offer. The Faculty of Natural Resources Management has run this course successfully for more than a decade and we see no reason to try to duplicate resources. The planned arrangement for NRMT 2270 is that Natural Resources Management will teach lecture and laboratory course content (as they do now) but The Department of Geography will contribute the time and expertise of one of our Technical Staff to assist in the delivery of the laboratory component of the course and particularly to support Geography and other students in the Certificate Program in Geomatics. The detail as to whether or not a unique laboratory section for students in the Certificate Program is still to be finalized. Like other laboratory-based geomatics courses, this course presents an on-going software maintenance cost and the Department of Geography has agreed to work with the Dean of Natural Resources Management to find creative ways to help</p>	<p>Outside Support</p> <p>The proposed addition of Natural Resources Management 2270 adds an important digital photogrammetry component that Geography alone would not have the infrastructure to offer. The Faculty of Natural Resources Management has run this course successfully for more than a decade and we see no reason to try to duplicate resources. The planned arrangement for NRMT 2270 is that Natural Resources Management will teach lecture and laboratory course content (as they do now) but The Department of Geography will contribute the time and expertise of one of our Technical Staff to assist in the delivery of the laboratory component of the course and particularly to support Geography and other students in the Certificate Program in Geomatics. The detail as to whether or not a unique laboratory section for students in the Certificate Program is still to be finalized. Like other laboratory-based geomatics courses, this course presents an on-going software maintenance cost and the Department of Geography has agreed to work with the Dean of Natural Resources Management to find creative ways to help</p>

with the annual software maintenance needs of the laboratory space used to deliver this course.

~~with the annual software maintenance needs of the laboratory space used to deliver this course.~~ *No outside support of any kind will be required.*

8.	New Version of a Degree	HBSC.GEOG.GEOL - Honours BSc (Geography with Geology Minor)
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Degree Details

CURRENT VERSION	PROPOSED VERSION
HBSC.GEOG.GEOL - Honours BSc (Geography with Geology Minor) Start Term: Fall 2014 End Term: No Specified End Date	HBSC.GEOG.GEOL - Honours BSc (Geography with Geology Minor) Start Term: Fall 2014 2015-16 End Term: No Specified End Date

<u>Required Information</u>	
CURRENT VERSION	PROPOSED VERSION
Institution Unit Faculty of Science and Environmental Studies	Institution Unit Faculty of Science and Environmental Studies
Degree Type HBSC	Degree Type HBSC
Major GGGL	Major GGGL
Minor	Minor
Specialization	Specialization
Rationale Many of our Geography degree programs require the existing course (Geography 3251) at the third year of the program. With moving it to second year of these same programs, thereby replacing Geography 2211 at year 2, we have replaced the requirement of Geography 3251 or 3523 at year 3 with a more general requirement that students choose one half-course in a list of third year Geography courses and one Natural Resources Management course, with the recommendation that students in Geography programs who are also pursuing the Certificate Program in Geomatics elect to take either Geography 3523 or Natural Resources Management 2270 from this listing.	Rationale Many of our Geography degree programs require the existing course (Geography 3251) at the third year of the program. With moving it to second year of these same programs, thereby replacing Geography 2211 at year 2, we have replaced the requirement of Geography 3251 or 3523 at year 3 with a more general requirement that students choose one half-course in a list of third year Geography courses and one Natural Resources Management course, with the recommendation that students in Geography programs who are also pursuing the Certificate Program in Geomatics elect to take either Geography 3523 or Natural Resources Management 2270 from this listing The changes will allow us to be more flexible with course scheduling. We can maintain the same range of courses offered as in the past, with a smaller faculty complement – there will be no need to sacrifice the quality of our programs as a result of diminishing teaching resources. The changes will also make scheduling that much more easy in Orillia where the number of faculty are even lower than in Thunder Bay. Furthermore, the changes proposed are simply formalizing an existing practice of permitting students to take 4th year courses earlier but only with the permission of the Chair of the department – with these changes we will be able to cut down on the administrative paperwork for the

	<i>Registrar's office and the departmental Chairperson.</i>
<p>Requirements</p> <p>Four Year program</p> <p>First Year:</p> <p>(a) Geography 1140 (b) Geology 1111, 1131 (c) Mathematics 1151 and 1152 (d) Two FCE electives in Science (Geography excluded)</p> <p>Second Year:</p> <p>(a) Geography 2232, 2251, 2271, 2331 and 2351 (b) Geology 2214, 2215, 2217 and 2310 (c) One half-course elective in Science</p> <p>Third Year:</p> <p>At the beginning of the third year and at the beginning of the fourth year students must consult with the Department of Geology before registering in Geology courses.</p> <p>(a) Two FCEs in Geography at the third year level (b) Geology 3410 (permission of the Department) (c) One and a half FCEs in Geology at the third year level (d) One FCE elective in Science</p> <p>Fourth Year:</p> <p>(a) Three FCEs in Geography at the fourth year level (b) One FCE in Geology (c) One FCE elective in Science</p> <p>Notes:</p> <p>(a) A required or elective course may consist of one full course (third digit even) or two half courses (third digit odd). (b) Elective courses may be chosen from any degree program in the University, provided the prerequisites are met. Students are strongly encouraged to consult with the Department of Geography and the Environment concerning the most useful electives for their program. In particular, those students with an interest in physical geography are encouraged to include the following electives in their program: Geology 1110, 1130, 2214, 2310 and 3410; Biology 1110, 1130 and 2210.</p>	<p>Requirements</p> <p>Four Year program</p> <p>First Year:</p> <p>(a) Geography 1140 (b) Geology 1111, 1131 (c) Mathematics 1151 and 1152 (d) Two FCE electives in Science (Geography excluded)</p> <p>Second Year:</p> <p>(a) Geography 2232, 2251, 2271, 2331 and 2351 (b) Geology 2214, 2215, 2217 and 2310 (c) One half-course elective in Science</p> <p>Third Year:</p> <p>At the beginning of the third year and at the beginning of the fourth year students must consult with the Department of Geology before registering in Geology courses.</p> <p>(a) Two One FCEs in Geography at the third year level</p> <p>(b) <i>One FCE in Geography at the fourth year level</i> (c) Geology 3410 (permission of the Department) (e) One and a half FCEs in Geology at the third year level (e) One FCE elective in Science</p> <p>Fourth Year:</p> <p>(a) Three FCEs One FCE in Geography at the <i>third or</i> fourth year level</p> <p>(b) <i>Two FCEs in Geography at the fourth year level</i> (c) One FCE in Geology (e) One FCE elective in Science</p> <p>Notes:</p> <p>(a) A required or elective course may consist of one full course (third digit even) or two half courses (third digit odd). (b) Elective courses may be chosen from any degree program in the University, provided the prerequisites are met. Students are strongly encouraged to consult with the Department of Geography and the Environment concerning the most useful electives for their program. In particular, those students with an interest in physical geography are encouraged to</p>

	include the following electives in their program: Geology 1110, 1130, 2214, 2310 and 3410; Biology 1110, 1130 and 2210.
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<u>Budgetary Considerations</u>	
CURRENT VERSION	PROPOSED VERSION
<p>Student Enrolment</p> <p>The proposed changes to the Certificate Program in Geomatics are meant to increase its marketability and post-graduate vocational outcomes for students. The University may see some increase in enrollment in other programs if students elect to take their concurrently with the Certificate Program.</p>	<p>Student Enrolment</p> <p>The proposed changes to the Certificate Program in Geomatics are meant to increase its marketability and post-graduate vocational outcomes for students. The University may see some increase in enrollment in other programs if students elect to take their concurrently with the Certificate Program. <i>No, there will be no impact on student enrolment in any program.</i></p>
<p>Student Enrolment Other Units</p> <p>This program change has a subtle effect (one second year Geography course substituted for another) for students in the School of Outdoor Recreation, Parks & Tourism and in the Faculty of Education.</p>	<p>Student Enrolment Other Units</p> <p>This program change has a subtle effect (one second year Geography course substituted for another) for students in the School of Outdoor Recreation, Parks & Tourism and in the Faculty of Education. <i>No, there will be no impact on student enrolment in any program.</i></p>
<p>Additional Resources</p> <p>None</p>	<p>Additional Resources</p> <p>None <i>No, there will be no requirement for additional resources of any kind.</i></p>
<p>Teaching Loads</p> <p>The proposed change to the program has no need for additional faculty. Removing Geography 2211 as a required course in combination with the move of Geography 3251 to 2XXX frees up 0.5 FCE load from a Geography faculty member that can be re-deployed to other Departmental offerings.</p>	<p>Teaching Loads</p> <p>The proposed change to the program has no need for additional faculty. Removing Geography 2211 as a required course in combination with the move of Geography 3251 to 2XXX frees up 0.5 FCE load from a Geography faculty member that can be re-deployed to other Departmental offerings. <i>This will not affect the existing teaching loads within the department.</i></p>
<p>TeachingSupport Services</p> <p>The move of Geography 3251 to 2XXX and not-offering Geography 2211 for 2014-15 should offset the anticipated time allocations of our Technical Staff and Graduate Assistants to the Geography 2XXX course. In 2015-16, this delisting of Geography 2211 from Geography programs will somewhat lessen loads on our Technical Staff and GA allocations.</p>	<p>TeachingSupport Services</p> <p>The move of Geography 3251 to 2XXX and not-offering Geography 2211 for 2014-15 should offset the anticipated time allocations of our Technical Staff and Graduate Assistants to the Geography 2XXX course. In 2015-16, this delisting of Geography 2211 from Geography programs will somewhat lessen loads on our Technical Staff and GA allocations. <i>There will be no impact on the demand for teaching support services.</i></p>
<p>Outside Support</p> <p>None</p>	<p>Outside Support</p> <p>None <i>No outside support of any kind will be required.</i></p>