



Lakehead University
Faculty of Science and Environmental Studies

REQUEST REPORT

Request Tracking Number: 2015-SCI-4689
Request Title: Program changes in 3rd and 4th year Geology

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

Request Contents

Type		Title
1.	New Version of a Degree	Honours BSc (Geology Major)
2.	New Version of a Degree	Honours BSc, BEd (Geology Major) I/S

Request History

Workflow Step	Workflow Action	User	Change Made	Comments	Date
Initiator	Approved	Kristine Carey	Yes	Submitted to workflow	01/06/2015
Submission Review (Calendar Officer)	Approved	Margaret Anderson (Submission Review)	No	Ready for workflow submission (associated course changes in 2015-SCI-4684)	01/06/2015

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
01/06/2015	Kristine Carey	See also associated course changes in 2015-SCI-4684

1.	New Version of a Degree	HBSC.GEOL - Honours BSc (Geology Major)
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Degree Details

CURRENT VERSION	PROPOSED VERSION
HBSC.GEOL - Honours BSc (Geology Major) Start Term: Fall 2013 End Term: No Specified End Date	HBSC.GEOL - Honours BSc (Geology Major) Start Term: Fall 2013 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 GEOL	Major GEOL
Minor	Minor
Specialization	Specialization
Rationale P. Hollings authorized split PHYS 1101 into two half-courses, associated change not included in original request #2012-SCI-417 approved at 22Mar2013 Senate meeting.	Rationale P. Hollings authorized split PHYS 1101 into two half-courses, associated change not included in original request #2012-SCI-417 approved at 22Mar2013 Senate meeting We are modifying the program to have students take 4 out of 5 courses to give them a greater degree of choice as requested by IQAP reviewers.
Requirements Four Year program Students choose elective courses in consultation with their Department Counsellor. First Year: (a) Geology 1111, 1131 (b) Chemistry 1110, 1130 (c) English 1011 and 1031 (d) Mathematics 1210 and 1230 or 1151 and 1152 or 1171 and 1172 (e) Physics 1113 and 1133, or Physics 1211 and 1212 Notes: 1. Chemistry Students planning to major in Geology who lack OAC Chemistry or equivalent, must register for Chemistry	Requirements Four Year program Students choose elective courses in consultation with their Department Counsellor. First Year: (a) Geology 1111, 1131 (b) Chemistry 1110, 1130 (c) English 1011 and 1031 (d) Mathematics 1210 and 1230 or 1151 and 1152 or 1171 and 1172 (e) Physics 1113 and 1133, or Physics 1211 and 1212 Notes: 1. Chemistry Students planning to major in Geology who lack OAC

<p>1050/1070 as a science elective. After successful completion of Chemistry 1050/1070 one of the following will apply:</p> <p>(a) In Year 2 the student registers for Chemistry 1110/1130 as one of the one and one half course electives.</p> <p>(b) If the final mark in Chemistry 1050/1070 is at least 80%, the Department may waive the Chemistry 1110/1130 requirement. In this case the student must select a full course in Science from the electives in Year 2 of the program.</p> <p>2. Mathematics Students who lack high school MHF4U (Advanced Functions) or its equivalent must register for Mathematics 1051 and 1077. Mathematics 1210 and 1230 or 1151 and 1152 or 1171 and 1172 is taken in Year 2.</p> <p>3. Physics Students planning to major in Geology who lack Grade 12 U or M Physics may still register for Physics 1101 or 1113 and 1133.</p> <p>Second Year: (a) Geology 2112, 2214, 2215, 2217, 2219, 2310, 2318 (b) One and a half FCE electives</p> <p>Third Year: (a) Geology 3110, 3130, 3216, 3217, 3310, 3311, 3410 (b) Mathematics 2310 and 2311 (c) A half-course elective</p> <p>Fourth Year: (a) Geology 4137, 4161, 4181, 4215, 4313, 4411 (b) One FCE from: Biology, Chemistry, Computer Science, Mathematics or Physics</p>	<p>Chemistry or equivalent, must register for Chemistry 1050/1070 as a science elective. After successful completion of Chemistry 1050/1070 one of the following will apply:</p> <p>(a) In Year 2 the student registers for Chemistry 1110/1130 as one of the one and one half course electives.</p> <p>(b) If the final mark in Chemistry 1050/1070 is at least 80%, the Department may waive the Chemistry 1110/1130 requirement. In this case the student must select a full course in Science from the electives in Year 2 of the program.</p> <p>2. Mathematics Students who lack high school MHF4U (Advanced Functions) or its equivalent must register for Mathematics 1051 and 1077. Mathematics 1210 and 1230 or 1151 and 1152 or 1171 and 1172 is taken in Year 2.</p> <p>3. Physics Students planning to major in Geology who lack Grade 12 U or M Physics may still register for Physics 1101 or 1113 and 1133.</p> <p>Second Year: (a) Geology 2112, 2214, 2215, 2217, 2219, 2310, 2318 (b) One and a half FCE electives</p> <p>Third Year: (a) Geology 3110, 3130, 3216 3218, 3217, 3310, 3311, 3410 (b) <i>Two half-courses chosen from: Geology 3110, 3217, 4132, 4215, 4411</i> (c) Mathematics 2310 and 2311 (ed) A half-course elective</p> <p>Fourth Year: (a) Geology 4137, 4161, 4181, <i>4313</i> (b) <i>Two half-courses not previously taken from: Geology 3110, 3217, 4132, 4215, 4313, 4411</i> (bc) One FCE from: Biology, Chemistry, Computer Science, Mathematics or Physics</p>
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<u>Budgetary Considerations</u>	
CURRENT VERSION	PROPOSED VERSION
Student Enrolment	Student Enrolment <i>no</i>
Student Enrolment Other Units	Student Enrolment Other Units <i>no</i>
Additional Resources	Additional Resources <i>no</i>
Teaching Loads	Teaching Loads <i>no effect</i>

TeachingSupport Services	TeachingSupport Services <i>none</i>
Outside Support	Outside Support <i>no</i>

2.	New Version of a Degree	HBSCBED.GEOL.IS - Honours BSc, BEd (Geology Major) I/S
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Degree Details

CURRENT VERSION	PROPOSED VERSION
HBSCBED.GEOL.IS - Honours BSc, BEd (Geology Major) I/S Start Term: Fall 2013 End Term: No Specified End Date	HBSCBED.GEOL.IS - Honours BSc, BEd (Geology Major) I/S Start Term: Fall 2013 2015-16 End Term: No Specified End Date

<u>Required Information</u>	
CURRENT VERSION	PROPOSED VERSION
Institution Unit Faculty of Education	Institution Unit Faculty of Education
Degree Type HBSED	Degree Type HBSED
Major GEOL	Major GEOL
Minor	Minor
Specialization	Specialization
Rationale #2012-EDU-350 (Professional Year changes – EDUC 4470, 4490, 4414, 4273) (referred at 18Jan2013 Senate and approved at 14May2013 Senate meeting). Associated program changes for HBSCBED.GEOL.IS.	Rationale #2012-EDU-350 (Professional Year changes – EDUC 4470, 4490, 4414, 4273) (referred at 18Jan2013 Senate and approved at 14May2013 Senate meeting). Associated program changes for HBSCBED.GEOL.IS. We are modifying the program to have students take 4 out of 5 courses to give them a greater degree of choice as requested by IQAP reviewers.
Requirements Five Year program Prior to Entry into Professional Year In concurrent education programs at the Intermediate/Senior level, students must meet and complete requirements of the partnering honours bachelor degree program prior to entry into the Professional Year including: 1. 1 FCE in English, French or an Indigenous language 2. Education 4417 and 4418 (.25 FCE x 2 = .5 FCE) 3. Education 4412, 4413, 4416 (.25 x 3 = .75 FCE) 4. Three Education electives (.25 x 3 = .75 FCE) (see	Requirements Five Year program Prior to Entry into Professional Year In concurrent education programs at the Intermediate/Senior level, students must meet and complete requirements of the partnering honours bachelor degree program prior to entry into the Professional Year including: 1. 1 FCE in English, French or an Indigenous language 2. Education 4417 and 4418 (.25 FCE x 2 = .5 FCE) 3. Education 4412, 4413, 4416 (.25 x 3 = .75 FCE) 4. Three Education electives (.25 x 3 = .75 FCE) (see

Electives in the Department of Undergraduate Studies in Education Courses list) (Education 2011 (0.5 FCE) is recommended)

5. A minimum cumulative and teachable average of 65% and a minimum major average of 70%.
6. At least 5 FCEs in a first teachable subject and 3 FCEs in a second teachable subject, with at least one half-course (i.e., a minimum of 0.5 FCE) at the third or fourth-year level in each teachable subject (5 FCEs if the teachable is French or Native Languages, and a Computer Science, Music or Visual Arts degree if the teachable is Computer Studies, Music or Visual Arts). For recognized I/S teachable subjects and exceptions to the above regulation see Department of Undergraduate Studies in Education, Levels and Teachables section.
7. Students in the Honours BA, BEd (Indigenous Learning Major) are required to take one FCE in Native Language, Visual Arts 2060/Indigenous Learning 2060 and English 2702/Indigenous Learning 2702. Students are encouraged to take one FCE in English at the first-year level, including at least one of English 1111 or 1112, in the First Year. Students are encouraged to choose either Education 3235 or 3270 as their Education elective.

Note:

For students in concurrent honours bachelor degree programs, 2 (two) FCEs of required Education courses will be taken instead of electives in the HBSc program, prior to entering the Professional Year.

First Year:

- (a) Geology 1111, 1131
- (b) Chemistry 1110, 1130
- (c) English 1011 and 1031
- (d) Mathematics 1210 and 1230 or 1151 and 1152 or 1171 and 1172
- (e) Physics 1101 or 1113 and 1133

Notes:

1. Chemistry

Students planning to major in Geology who lack OAC Chemistry or equivalent, must register for Chemistry 1050/1070 as a science elective. After successful completion of Chemistry 1050/1070 one of the following will apply:

- (a) In Year 2 the student registers for Chemistry 1110/1130 as one of the one and one half course electives.
- (b) If the final mark in Chemistry 1050/1070 is at least 80%, the Department may waive the Chemistry 1110/1130 requirement. In this case the student must select a full course in Science from the electives in Year 2 of the program.

2. Mathematics

Students who lack high school MHF4U (Advanced Functions) or its equivalent must register for Mathematics 1051 and 1077. Mathematics 1210 and 1230 or 1151 and 1152 or 1171 and 1172 is taken in Year 2.

3. Physics

Students planning to major in Geology who lack Grade 12 U or M Physics may still register for Physics 1101 or 1113 and 1133.

Second Year:

Electives in the Department of Undergraduate Studies in Education Courses list) (Education 2011 (0.5 FCE) is recommended)

5. A minimum cumulative and teachable average of 65% and a minimum major average of 70%.
6. At least 5 FCEs in a first teachable subject and 3 FCEs in a second teachable subject, with at least one half-course (i.e., a minimum of 0.5 FCE) at the third or fourth-year level in each teachable subject (5 FCEs if the teachable is French or Native Languages, and a Computer Science, Music or Visual Arts degree if the teachable is Computer Studies, Music or Visual Arts). For recognized I/S teachable subjects and exceptions to the above regulation see Department of Undergraduate Studies in Education, Levels and Teachables section.
7. Students in the Honours BA, BEd (Indigenous Learning Major) are required to take one FCE in Native Language, Visual Arts 2060/Indigenous Learning 2060 and English 2702/Indigenous Learning 2702. Students are encouraged to take one FCE in English at the first-year level, including at least one of English 1111 or 1112, in the First Year. Students are encouraged to choose either Education 3235 or 3270 as their Education elective.

Note:

For students in concurrent honours bachelor degree programs, 2 (two) FCEs of required Education courses will be taken instead of electives in the HBSc program, prior to entering the Professional Year.

First Year:

- (a) Geology 1111, 1131
- (b) Chemistry 1110, 1130
- (c) English 1011 and 1031
- (d) Mathematics 1210 and 1230 or 1151 and 1152 or 1171 and 1172
- (e) Physics 1101 or 1113 and 1133

Notes:

1. Chemistry

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- (a) In Year 2 the student registers for Chemistry 1110/1130 as one of the one and one half course electives.
- (b) If the final mark in Chemistry 1050/1070 is at least 80%, the Department may waive the Chemistry 1110/1130 requirement. In this case the student must select a full course in Science from the electives in Year 2 of the program.

2. Mathematics

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3. Physics

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Second Year:

- (a) Geology 2112, 2214, 2215, 2217, 2219, 2310,

<p>(a) Geology 2112, 2214, 2215, 2217, 2219, 2310, 2318 (b) One and a half FCE electives</p> <p>Third Year: (a) Geology 3110, 3130, 3216, 3217, 3310, 3311, 3410 (b) Mathematics 2310 and 2311 (c) A half-course elective</p> <p>Fourth Year: (a) Geology 4137, 4161, 4181, 4215, 4313, 4411 (b) One FCE from: Biology, Chemistry, Computer Science, Mathematics or Physics</p> <p>Fifth Year (Professional Year): Concurrent honours Professional Year (Intermediate/Senior) requirements are:</p> <p>(a) Core:</p> <p>Education 4000 - Honours Concurrent Special Topic</p> <p>Education 4490 - Essentials of Planning, Evaluation, and Classroom Management</p> <p>Education 4499 - Student Teaching in the Professional Year</p> <p>Education 4213 - Literacy & Learning in the IS Curriculum (<i>if teachable is English, choose one Education elective</i>)</p> <p>Education 4271 - Guiding Student Choices</p> <p>Education 4273 - Preparing Intermediate/Senior or Teacher Candidates for Junior/Intermediate (Grades 7 and 8) Classrooms</p> <p>(b) Curriculum and Instruction in two teachable subjects (2.0 FCE) selected from:</p> <p>Education 4241 - History</p> <p>Education 4242 - Social Sciences -</p>	<p>2318 (b) One and a half FCE electives</p> <p>Third Year: (a) Geology 3110, 3130, 3216 3218, 3217, 3310, 3311, 3410 (b) <i>Two half-courses chosen from: Geology 3110, 3217, 4132, 4215, 4411</i> (c) Mathematics 2310 and 2311 (ed) A half-course elective</p> <p>Fourth Year: (a) Geology 4137, 4161, 4181, <i>4313</i> (b) <i>Two half-courses not previously taken from: Geology 3110, 3217, 4132, 4215, 4313, 4411</i> (bc) One FCE from: Biology, Chemistry, Computer Science, Mathematics or Physics</p> <p>Fifth Year (Professional Year): Concurrent honours Professional Year (Intermediate/Senior) requirements are:</p> <p>1.50</p> <p>These course components meet Ontario College of Teachers requirements for teacher certification in Ontario.</p> <p>.50</p> <p>.50</p> <p>.25</p> <p>.25</p> <p>.25</p>
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General	
Education 4244 - Mathematics	
Education 4245 - Health ad Physical Education	
Education 4260 - Biology	
Education 4261 - Chemistry	
Education 4262 - General Science	
Education 4263 - Geography	
Education 4265 - Physics	
Education 4280 - English	
Education 4281 - French as a Second Language	
Education 4283 - Native Studies	
Education 4284 - Outdoor Ecological and Experiential Education: Intermediate- Senior Environmental Science	
Education 4285 - Native Languages	
Education 4288 - Tutorial in Education (Business, Computer Studies, Music-I, Music-V, Visual Arts)	
1.0 FCE x 2	2.00
(c) Education elective (see Electives in the Department of Undergraduate Studies in Education Courses list)	<u>.25</u>
Total FCEs	5.50

<p>These course components meet Ontario College of Teachers requirements for teacher certification in Ontario.</p>	
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<u>Budgetary Considerations</u>	
CURRENT VERSION	PROPOSED VERSION
Student Enrolment	Student Enrolment <i>no</i>
Student Enrolment Other Units	Student Enrolment Other Units <i>no</i>
Additional Resources	Additional Resources <i>no</i>
Teaching Loads	Teaching Loads <i>no effect</i>
TeachingSupport Services	TeachingSupport Services <i>none</i>
Outside Support	Outside Support <i>no</i>