

Navigator Suite



My Account

User: **Amanda Trevisanutto**

[Manage Your Account](#)

Edit Resources

My Curriculum

Assigned curriculum requests (28) [view](#)

Submitted curriculum requests (0) [view](#)

Your working folder contains: [view](#)

- 0 curriculum requests
- 0 courses
- 0 degrees
- 0 programs

Quick Links

Manage Degrees

[Search For Degree](#)

- Copy Degree
- Create New Version of Degree
- Discontinue Degree

[Catalog](#) [Curriculum](#) [Admin](#)

[Logout](#) | [Home](#)

Degree Details

[Generate Pdf Report](#)

Degree Details **Requirements** **Supporting Documents**

Justification: This change is to fulfill the objective in the Academic Action Plan to "Restructure existing 1.0 FCE courses (not including special project, thesis, or directed study type courses) into 0.5 FCE courses to remove unnecessary barriers for students transferring from colleges and/or other universities."

Degree Status: In Workflow Request ([View History](#))

Change Type: New Version

Zone 1: Required Information

	Current Version	Proposed Version
	QUALITY ASSURANCE	QUALITY ASSURANCE
	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements
Program Code:	HBSC.PHAP	HBSC.PHAP
AcademicLevel:	Undergraduate	Undergraduate
StartTerm:	Fall 2001	Fall 2004F-W 2013-14
EndTerm:	No Specified End Date	No Specified End Date [?]
InstitutionUnit:	<ul style="list-style-type: none"> Lakehead University Faculty of Science and Environmental Studies 	<ul style="list-style-type: none"> Lakehead University Faculty of Science and Environmental Studies
Title:	Honours BSc (Physics) with Major Concentration in Applied Bio-Molecular Science	Honours BSc (Physics) with Major Concentration in Applied Bio-Molecular Science
DegreeType:	HBSC	HBSC
Major:	PHAP	PHAP
Minor:		
Specialization:		
Rationale for this proposal:		
Description:	HBSc (Phys) w/Concn Apbi	HBSc (Phys) w/Concn Apbi
Credits:		
Requirements:	<p>Four Year program A program designed for students interested in medical physics, medicine, biotechnology instrumentation, or biological physics research. Courses which count towards the Major Concentration in Applied Bio-Molecular Science are indicated below with an asterisk. A cumulative average of 70% in all Physics courses as well as all courses used toward the Applied Bio-Molecular Science Major Concentration is required.</p> <p>First Year: (a) Physics 1101 (b) Mathematics 1171 and 1172 (c) Chemistry 1110* and 1130* (d) One full course equivalent elective (e) Computer Science 0411 or 1411 (f) Biology 2171*</p> <p>Second Year: (a) Physics 2151, 2211, 2311, 2331 and 2332 (b) Mathematics 2111 and 2131 (c) Biology 2230* (d) Chemistry 2211* (e) One half-course elective</p> <p>Third Year: (a) Physics 2111, 3113, 3211, 3231 and 3511 (b) One half-course elective in Physics (c) Mathematics 3131 (d) Biology 2711* and 2910* (e) One half-course elective</p> <p>Fourth Year: (a) Physics 4411 and 4412 (b) One half-course elective in Physics (c) One half-course elective in Physics at the third or fourth year level (d) One half-course elective in Physics at the fourth year level (e) Three half-courses (excluding Physics) from the Applied Bio-Molecular Science List of Recommended Courses (see Applied Bio-Molecular Science Programs) (f) One FCE elective</p> <p>Notes: 1. An Honours Physics Thesis (Physics 4501) can be used in place of the lab courses (Physics 4411 and 4412) or as an open elective. It cannot be used to replace Physics electives. 2. Students can switch to the Honours Physics program after second year. 3. Due to course rotation some courses may need to be taken out of sequence.</p>	<p>Four Year program A program designed for students interested in medical physics, medicine, biotechnology instrumentation, or biological physics research. Courses which count towards the Major Concentration in Applied Bio-Molecular Science are indicated below with an asterisk. A cumulative average of 70% in all Physics courses as well as all courses used toward the Applied Bio-Molecular Science Major Concentration is required.</p> <p>First Year: (a) Physics 4401 1XXX and Physics II 1XXX (b) Mathematics 1171 and 1172 (c) Chemistry 1110* and 1130* (d) One full course equivalent elective (e) Computer Science 0411 or 1411 (f) Biology 2171*</p> <p>Second Year: (a) Physics 2151, 2211, 2311, 2331 and 2332 (b) Mathematics 2111 and 2131 (c) Biology 2230* (d) Chemistry 2211* (e) One half-course elective</p> <p>Third Year: (a) Physics 2111, 3113, 3211, 3231 and 3511 (b) One half-course elective in Physics (c) Mathematics 3131 (d) Biology 2711* and 2910* (e) One half-course elective</p> <p>Fourth Year: (a) Physics 4411 and 4412 (b) One half-course elective in Physics (c) One half-course elective in Physics at the third or fourth year level (d) One half-course elective in Physics at the fourth year level (e) Three half-courses (excluding Physics) from the Applied Bio-Molecular Science List of Recommended Courses (see Applied Bio-Molecular Science Programs) (f) One FCE elective</p> <p>Notes: 1. An Honours Physics Thesis (Physics 4501) can be used in place of the lab courses (Physics 4411 and 4412) or as an open elective. It cannot be used to replace Physics electives. 2. Students can switch to the Honours Physics program after second year. 3. Due to course rotation some courses may need to be taken out of sequence.</p>

Zone 2: Budgetary Considerations	
Current Version	Proposed Version
Please Complete Each Section and provide explanations for both Yes and No answers.	Please Complete Each Section and provide explanations for both Yes and No answers.
Student Enrolment:	[?]
Student Enrolment Other Units:	[?]
Additional Resources:	[?]
Teaching Loads:	[?]
Teaching Support Services :	[?]
Outside Support:	[?]

[Back](#)

Navigator Suite



My Account

User: **Amanda Trevisanutto**

[Manage Your Account](#)

Edit Resources

My Curriculum

Assigned curriculum requests (28) [view](#)

Submitted curriculum requests (0) [view](#)

Your working folder contains: [view](#)

- 0 curriculum requests
- 0 courses
- 0 degrees
- 0 programs

Quick Links

Manage Degrees

[Search For Degree](#)

- Copy Degree
- Create New Version of Degree
- Discontinue Degree

[Catalog](#) [Curriculum](#) [Admin](#)

[Logout](#) | [Home](#)

Degree Details

[Generate Pdf Report](#)

Degree Details **Requirements** **Supporting Documents**

Justification: This change is to fulfill the objective in the Academic Action Plan to "Restructure existing 1.0 FCE courses (not including special project, thesis, or directed study type courses) into 0.5 FCE courses to remove unnecessary barriers for students transferring from colleges and/or other universities."

Degree Status: In Workflow Request ([View History](#))

Change Type: New Version

Zone 1: Required Information

	Current Version	Proposed Version
	QUALITY ASSURANCE	QUALITY ASSURANCE
	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements
Program Code:	BSC.PHYS	BSC.PHYS
AcademicLevel:	Undergraduate	Undergraduate
StartTerm:	Fall 1999	Fall 1999F-W 2013-14
EndTerm:	No Specified End Date	No Specified End Date [?]
InstitutionUnit:	<ul style="list-style-type: none"> Lakehead University Faculty of Science and Environmental Studies 	<ul style="list-style-type: none"> Lakehead University Faculty of Science and Environmental Studies
Title:	BSc (Physics Major)	BSc (Physics Major)
DegreeType:	BSC	BSC
Major:	PHYS	PHYS
Minor:		
Specialization:		
Rationale for this proposal:		
Description:	BSc (Physics)	BSc (Physics)
Credits:		
Requirements:	<p>Three Year program The student is referred to the Faculty of Science and Environmental Studies regulations requirement on the necessary average mark to continue in a physics major program.</p> <p>First Year: (a) Physics 1101 (b) Mathematics 1171 and 1172 (c) Chemistry 1110, 1130 (d) One and one-half FCE elective. (e) Computer Science 0411 or 1411</p> <p>Second Year: (a) Physics 2111, 2151, 2211, 2311, 2331 and 2332 (b) Mathematics 2111 and 2131 (c) One FCE elective</p> <p>Third Year: (a) Physics 3113, 3211 and 3231 (b) One half-course in Physics at the third or fourth year level (c) Mathematics 3131 and 3133 (d) Two FCE electives</p> <p>Further Requirements: 1. Lakehead University allows no more than seven FCE first year courses to be taken. 2. Lakehead University requires that no first year course be taken in the third year without written approval of the Dean of Science and Environmental Studies.</p> <p>HBSc (Computer Science) Hardware Option The Honours BSc (Computer Science) Hardware Option is designed for students interested in computer hardware and software, computer controlled instrumentation, virtual reality modelling, and simulation of physical systems. Students wishing to complete the requirements for a BSc in Physics following the HBSc (Computer Science) Hardware Option program must complete Chemistry 1110/1130 and Physics 2111 and 3113 and have a total of at least 6 FCEs in Physics. See Department of Computer Science, Computer Science Programs.</p>	<p>Three Year program The student is referred to the Faculty of Science and Environmental Studies regulations requirement on the necessary average mark to continue in a physics major program.</p> <p>First Year: (a) Physics 1101 1XXX and Physics II 1XXX (b) Mathematics 1171 and 1172 (c) Chemistry 1110, 1130 (d) One and one-half FCE elective. (e) Computer Science 0411 or 1411</p> <p>Second Year: (a) Physics 2111, 2151, 2211, 2311, 2331 and 2332 (b) Mathematics 2111 and 2131 (c) One FCE elective</p> <p>Third Year: (a) Physics 3113, 3211 and 3231 (b) One half-course in Physics at the third or fourth year level (c) Mathematics 3131 and 3133 (d) Two FCE electives</p> <p>Further Requirements: 1. Lakehead University allows no more than seven FCE first year courses to be taken. 2. Lakehead University requires that no first year course be taken in the third year without written approval of the Dean of Science and Environmental Studies.</p> <p>HBSc (Computer Science) Hardware Option The Honours BSc (Computer Science) Hardware Option is designed for students interested in computer hardware and software, computer controlled instrumentation, virtual reality modelling, and simulation of physical systems. Students wishing to complete the requirements for a BSc in Physics following the HBSc (Computer Science) Hardware Option program must complete Chemistry 1110/1130 and Physics 2111 and 3113 and have a total of at least 6 FCEs in Physics. See Department of Computer Science, Computer Science Programs.</p>

Zone 2: Budgetary Considerations	
Current Version	Proposed Version
Please Complete Each Section and provide explanations for both Yes and No answers.	Please Complete Each Section and provide explanations for both Yes and No answers.
Student Enrolment:	[?]
Student Enrolment Other Units:	[?]
Additional Resources:	[?]
Teaching Loads:	[?]
Teaching Support Services :	[?]
Outside Support:	[?]

[Back](#)

Navigator Suite



My Account

User: **Amanda Trevisanutto**

[Manage Your Account](#)

Edit Resources

My Curriculum

Assigned curriculum requests (28) [view](#)

Submitted curriculum requests (0) [view](#)

Your working folder contains: [view](#)

- 0 curriculum requests
- 0 courses
- 0 degrees
- 0 programs

Quick Links

Manage Degrees

[Search For Degree](#)

- Copy Degree
- Create New Version of Degree
- Discontinue Degree

[Catalog](#) [Curriculum](#) [Admin](#)

[Logout](#) | [Home](#)

Degree Details

[Generate Pdf Report](#)

[Degree Details](#) [Requirements](#) [Supporting Documents](#)

Justification: This change is to fulfill the objective in the Academic Action Plan to "Restructure existing 1.0 FCE courses (not including special project, thesis, or directed study type courses) into 0.5 FCE courses to remove unnecessary barriers for students transferring from colleges and/or other universities."

Degree Status: In Workflow Request ([View History](#))

Change Type: New Version

Zone 1: Required Information

	Current Version	Proposed Version
	QUALITY ASSURANCE	QUALITY ASSURANCE
	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements
Program Code:	HBSC.PHYS	HBSC.PHYS
AcademicLevel:	Undergraduate	Undergraduate
StartTerm:	Fall 1999	Fall 1999 F-W 2013-14
EndTerm:	No Specified End Date	No Specified End Date [?]
InstitutionUnit:	<ul style="list-style-type: none"> Lakehead University Faculty of Science and Environmental Studies 	<ul style="list-style-type: none"> Lakehead University Faculty of Science and Environmental Studies
Title:	Honours BSc (Physics Major)	Honours BSc (Physics Major)
DegreeType:	HBSC	HBSC
Major:	PHYS	PHYS
Minor:		
Specialization:		
Rationale for this proposal:		
Description:	HBSc (Physics)	HBSc (Physics)
Credits:		
Requirements:	<p>Four Year program A cumulative average of 70% in all Physics courses is required.</p> <p>First Year: (a) Physics 1101 (b) Mathematics 1171 and 1172 (c) Chemistry 1110, 1130 (d) One and one-half FCE elective. (e) Computer Science 0411 or 1411</p> <p>Second Year: (a) Physics 2111, 2151, 2211, 2311, 2331 and 2332 (b) Mathematics 2111 and 2131 (d) One FCE elective</p> <p>Third Year: (a) Physics 3113, 3211 and 3231 (b) Physics 4113 or 4171 (c) Physics 3371 or 4211 (d) A Physics half-course elective at the third or fourth year level (e) Mathematics 3131 and 3133 (f) One FCE elective</p> <p>Fourth Year: (a) Physics 4115, 4411 and 4412 (b) Physics 4113 or 4171 (the one not previously taken) (c) Physics 3371 or 4211 (the one not previously taken) (d) A Physics half-course elective at the third or fourth year level (e) Two FCE electives</p>	<p>Four Year program A cumulative average of 70% in all Physics courses is required.</p> <p>First Year: (a) Physics 1101Physics I 1XXX and Physics II 1XXX (b) Mathematics 1171 and 1172 (c) Chemistry 1110, 1130 (d) One and one-half FCE elective. (e) Computer Science 0411 or 1411</p> <p>Second Year: (a) Physics 2111, 2151, 2211, 2311, 2331 and 2332 (b) Mathematics 2111 and 2131 (d) One FCE elective</p> <p>Third Year: (a) Physics 3113, 3211 and 3231 (b) Physics 4113 or 4171 (c) Physics 3371 or 4211 (d) A Physics half-course elective at the third or fourth year level (e) Mathematics 3131 and 3133 (f) One FCE elective</p> <p>Fourth Year: (a) Physics 4115, 4411 and 4412 (b) Physics 4113 or 4171 (the one not previously taken) (c) Physics 3371 or 4211 (the one not previously taken) (d) A Physics half-course elective at the third or fourth year level (e) Two FCE electives</p>

Zone 2: Budgetary Considerations	
Current Version	Proposed Version
Please Complete Each Section and provide explanations for both Yes and No answers.	Please Complete Each Section and provide explanations for both Yes and No answers.
Student Enrolment:	[?]
Student Enrolment Other Units:	[?]
Additional Resources:	[?]
Teaching Loads:	[?]
Teaching Support Services :	[?]
Outside Support:	[?]

[Back](#)

Navigator Suite



My Account

User: Amanda Trevisanutto

[Manage Your Account](#)

Edit Resources

My Curriculum

Assigned curriculum requests (28) [view](#)

Submitted curriculum requests (0) [view](#)

Your working folder contains: [view](#)

- 0 curriculum requests
- 0 courses
- 0 degrees
- 0 programs

Quick Links

Manage Degrees

[Search For Degree](#)

- Copy Degree
- Create New Version of Degree
- Discontinue Degree

Catalog Curriculum Admin

[Logout](#) | [Home](#)

Degree Details

[Generate Pdf Report](#)

Degree Details Requirements Supporting Documents

Justification: This change is to fulfill the objective in the Academic Action Plan to "Restructure existing 1.0 FCE courses (not including special project, thesis, or directed study type courses) into 0.5 FCE courses to remove unnecessary barriers for students transferring from colleges and/or other universities."

Degree Status: In Workflow Request ([View History](#))

Change Type: New Version

Zone 1: Required Information

	Current Version	Proposed Version
	QUALITY ASSURANCE	QUALITY ASSURANCE
	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements
Program Code:	BSC.MATHPHYS	BSC.MATHPHYS
AcademicLevel:	Undergraduate	Undergraduate
StartTerm:	Fall 1999	Fall-1999F-W 2013-14
EndTerm:	No Specified End Date	No Specified End Date [?]
InstitutionUnit:	<ul style="list-style-type: none"> • Lakehead University • Faculty of Science and Environmental Studies 	<ul style="list-style-type: none"> • Lakehead University • Faculty of Science and Environmental Studies
Title:	BSc (Mathematics and Physics Majors)	BSc (Mathematics and Physics Majors)
DegreeType:	BSC	BSC
Major:	MAPY	MAPY
Minor:		
Specialization:		
Rationale for this proposal:		
Description:	BSc (Mathematics & Phys)	BSc (Mathematics & Phys)
Credits:		
Requirements:	Three Year program A mark of 60% in the Mathematics and Physics courses of each year is required. The electives must be approved by the Chairs of the Department of Mathematical Sciences and Physics.	Three Year program A mark of 60% in the Mathematics and Physics courses of each year is required. The electives must be approved by the Chairs of the Department of Mathematical Sciences and Physics.
	First Year: (a) Mathematics 1171, 1172, 1271 and 1272 (b) Physics 1101 (c) One FCE elective. Group I or II courses are recommended. (See Faculty of Social Sciences and Humanities, First Year Arts Program Grouping Requirements) (d) One FCE elective(s) in Science	First Year: (a) Mathematics 1171, 1172, 1271 and 1272 (b) Physics 1101 and Physics II 1XXX (c) One FCE elective. Group I or II courses are recommended. (See Faculty of Social Sciences and Humanities, First Year Arts Program Grouping Requirements) (d) One FCE elective(s) in Science
	Second Year: (a) Mathematics 2111, 2131, 2255, 2275 (b) Physics 2111 and 2211 (c) One FCE elective(s) in Physics (d) One FCE elective(s)	Second Year: (a) Mathematics 2111, 2131, 2255, 2275 (b) Physics 2111 and 2211 (c) One FCE elective(s) in Physics (d) One FCE elective(s)
	Third Year: (a) Mathematics 3131 and 3133 (b) Physics 3211 and 3113 (c) One FCE elective(s) in Physics (d) Two FCE electives	Third Year: (a) Mathematics 3131 and 3133 (b) Physics 3211 and 3113 (c) One FCE elective(s) in Physics (d) Two FCE electives

Zone 2: Budgetary Considerations	
Current Version	Proposed Version
Please Complete Each Section and provide explanations for both Yes and No answers.	Please Complete Each Section and provide explanations for both Yes and No answers.
Student Enrolment:	[?]
Student Enrolment Other Units:	[?]
Additional Resources:	[?]
Teaching Loads:	[?]
Teaching Support Services :	[?]
Outside Support:	[?]

[Back](#)

Navigator Suite



My Account

User: **Amanda Trevisanutto**

[Manage Your Account](#)

Edit Resources

My Curriculum

Assigned curriculum requests (28) [view](#)

Submitted curriculum requests (0) [view](#)

Your working folder contains: [view](#)

- 0 curriculum requests
- 0 courses
- 0 degrees
- 0 programs

Quick Links

Manage Degrees

[Search For Degree](#)

- Copy Degree
- Create New Version of Degree
- Discontinue Degree

[Catalog](#) [Curriculum](#) [Admin](#)

[Logout](#) | [Home](#)

Degree Details

[Generate Pdf Report](#)

Degree Details **Requirements** **Supporting Documents**

Justification: This change is to fulfill the objective in the Academic Action Plan to "Restructure existing 1.0 FCE courses (not including special project, thesis, or directed study type courses) into 0.5 FCE courses to remove unnecessary barriers for students transferring from colleges and/or other universities."

Degree Status: In Workflow Request ([View History](#))

Change Type: New Version

Zone 1: Required Information

	Current Version	Proposed Version
	QUALITY ASSURANCE	QUALITY ASSURANCE
	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements
Program Code:	HBSC.GEOL.PHYS	HBSC.GEOL.PHYS
AcademicLevel:	Undergraduate	Undergraduate
StartTerm:	Fall 1999	Fall 1999F-W 2013-14
EndTerm:	No Specified End Date	No Specified End Date [?]
InstitutionUnit:	<ul style="list-style-type: none"> Lakehead University Faculty of Science and Environmental Studies 	<ul style="list-style-type: none"> Lakehead University Faculty of Science and Environmental Studies
Title:	HBSc (Geology with Major Concentration in Physics)	HBSc (Geology with Major Concentration in Physics)
DegreeType:	HBSC	HBSC
Major:	GLPY	GLPY
Minor:		
Specialization:		
Rationale for this proposal:		
Description:	HBSc (Geol) w/Concn Phys	HBSc (Geol) w/Concn Phys
Credits:		
Requirements:	<p>Four Year program A four year program leading to a background suitable for those seeking a career in geophysics.</p> <p>First Year: (a) Geology 1111, 1131 (b) Physics 1101 (c) Chemistry 1110, 1130 (d) English 1011 and 1031 (e) Mathematics 1210 and 1230 or 1151 and 1152 or 1171 and 1172</p> <p>Note: 1. 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>Second Year: (a) Geology 2112, 2214, 2217, 2310, 2318 (b) Physics 2151, 2311 (c) Mathematics 2111 (d) One FCE elective</p> <p>Third Year: (a) Geology 2219, 3216, 3310 (b) Physics 2111, 2211 and 2331 (c) Mathematics 2131 (d) One and one-half FCE electives</p> <p>Fourth Year: (a) Geology 4181 (may be a Geophysics thesis project), Geology 4313, 4411 (b) Physics 3211, 3231 (c) Geology 4161 (may be a Geophysics project) (d) One half-course elective in Physics (e) One half-course elective in Geology or Physics</p>	<p>Four Year program A four year program leading to a background suitable for those seeking a career in geophysics.</p> <p>First Year: (a) Geology 1111, 1131 (b) Physics 1101 and Physics II 1XXX (c) Chemistry 1110, 1130 (d) English 1011 and 1031 (e) Mathematics 1210 and 1230 or 1151 and 1152 or 1171 and 1172</p> <p>Note: 1. 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>Second Year: (a) Geology 2112, 2214, 2217, 2310, 2318 (b) Physics 2151, 2311 (c) Mathematics 2111 (d) One FCE elective</p> <p>Third Year: (a) Geology 2219, 3216, 3310 (b) Physics 2111, 2211 and 2331 (c) Mathematics 2131 (d) One and one-half FCE electives</p> <p>Fourth Year: (a) Geology 4181 (may be a Geophysics thesis project), Geology 4313, 4411 (b) Physics 3211, 3231 (c) Geology 4161 (may be a Geophysics project) (d) One half-course elective in Physics (e) One half-course elective in Geology or Physics</p>

Zone 2: Budgetary Considerations	
Current Version	Proposed Version
Please Complete Each Section and provide explanations for both Yes and No answers.	Please Complete Each Section and provide explanations for both Yes and No answers.
Student Enrolment:	[?]
Student Enrolment Other Units:	[?]
Additional Resources:	[?]
Teaching Loads:	[?]
Teaching Support Services :	[?]
Outside Support:	[?]

[Back](#)

Navigator Suite



My Account

User: Amanda Trevisanutto

[Manage Your Account](#)

Edit Resources

My Curriculum

Assigned curriculum requests (28) [view](#)

Submitted curriculum requests (0) [view](#)

Your working folder contains: [view](#)

- 0 curriculum requests
- 0 courses
- 0 degrees
- 0 programs

Quick Links

Manage Degrees

[Search For Degree](#)

- Copy Degree
- Create New Version of Degree
- Discontinue Degree

Catalog Curriculum Admin

[Logout](#) | [Home](#)

Degree Details

[Generate Pdf Report](#)

Degree Details | **Requirements** | **Supporting Documents**

Justification: This change is to fulfill the objective in the Academic Action Plan to "Restructure existing 1.0 FCE courses (not including special project, thesis, or directed study type courses) into 0.5 FCE courses to remove unnecessary barriers for students transferring from colleges and/or other universities."

Degree Status: In Workflow Request ([View History](#))

Change Type: New Version

Zone 1: Required Information

	Current Version	Proposed Version
	QUALITY ASSURANCE	QUALITY ASSURANCE
	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements
Program Code:	MINOR.PHYS	MINOR.PHYS
AcademicLevel:	Undergraduate	Undergraduate
StartTerm:	Fall 2010	Fall 2010F-W 2013-14
EndTerm:	No Specified End Date	No Specified End Date [?]
InstitutionUnit:	<ul style="list-style-type: none"> • Lakehead University • Faculty of Science and Environmental Studies 	<ul style="list-style-type: none"> • Lakehead University • Faculty of Science and Environmental Studies
Title:	Minor Program in Physics	Minor Program in Physics
Major:		
Minor:		
Specialization:		
Rationale for this proposal:		
Description:		
Credits:		
Requirements:	<p>A student may obtain a minor in Physics if the following three full courses have been completed with a minimum overall average of 60%:</p> <p>(a) Physics 1101, or Physics 1113 and 1133, or Physics 1010 and 1030</p> <p>(b) Two of: Physics 2111, 2151, 2211, 2311, 2331, 2332</p> <p>(c) Two half-courses in Physics at the third or fourth year level. Students should be aware of the prerequisites in upper year courses when planning their program.</p>	<p>A student may obtain a minor in Physics if the following three full courses have been completed with a minimum overall average of 60%:</p> <p>(a) Physics 1101 and Physics II 1XXX, or Physics 1113 and 1133, or Physics 1010 and 1030</p> <p>(b) Two of: Physics 2111, 2151, 2211, 2311, 2331, 2332</p> <p>(c) Two half-courses in Physics at the third or fourth year level. Students should be aware of the prerequisites in upper year courses when planning their program.</p>

Zone 2: Budgetary Considerations

	Current Version	Proposed Version
	Please Complete Each Section and provide explanations for both Yes and No answers.	Please Complete Each Section and provide explanations for both Yes and No answers.
Student Enrolment:		[?]
Student Enrolment Other Units:		[?]
Additional Resources:		[?]
Teaching Loads:		[?]
Teaching Support Services :		[?]
Outside Support:		[?]

[Back](#)

Navigator Suite



My Account

User: **Amanda Trevisanutto**

[Manage Your Account](#)

Edit Resources

My Curriculum

Assigned curriculum requests (28) [view](#)

Submitted curriculum requests (0) [view](#)

Your working folder contains: [view](#)

- 0 curriculum requests
- 0 courses
- 0 degrees
- 0 programs

Quick Links

Manage Degrees

[Search For Degree](#)

- Copy Degree
- Create New Version of Degree
- Discontinue Degree

[Catalog](#) [Curriculum](#) [Admin](#)

[Logout](#) | [Home](#)

Degree Details

[Generate Pdf Report](#)

Degree Details **Requirements** **Supporting Documents**

Justification: This change is to fulfill the objective in the Academic Action Plan to "Restructure existing 1.0 FCE courses (not including special project, thesis, or directed study type courses) into 0.5 FCE courses to remove unnecessary barriers for students transferring from colleges and/or other universities."

Degree Status: In Workflow Request ([View History](#))

Change Type: New Version

Zone 1: Required Information

	Current Version	Proposed Version
	QUALITY ASSURANCE	QUALITY ASSURANCE
	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements
Program Code:	BSCBED.PHYS.IS	BSCBED.PHYS.IS
AcademicLevel:	Undergraduate	Undergraduate
StartTerm:	Fall 1999	Fall 1999F-W 2013-14
EndTerm:	No Specified End Date	No Specified End Date [?]
InstitutionUnit:	<ul style="list-style-type: none"> Lakehead University Faculty of Education 	<ul style="list-style-type: none"> Lakehead University Faculty of Education
Title:	BSc, BEd (Physics Major) I/S	BSc, BEd (Physics Major) I/S
DegreeType:	BSBED	BSBED
Major:	PHYS	PHYS
Minor:		
Specialization:		
Rationale for this proposal:		This change is to fulfill the objective in the Academic Action Plan to "Restructure existing 1.0 FCE courses (not including special project, thesis, or directed study type courses) into 0.5 FCE courses to remove unnecessary barriers for students transferring from colleges and/or other universities."
Description:	BScBEd IS (Physics)	BScBEd IS (Physics)
Credits:		
Requirements:	<p>Four Year program A cumulative average of 65% in all courses is required. See Department of Undergraduate Studies in Education, Academic Regulation #2, regarding the average in the major.</p> <p>Students must choose two teachable subjects. See Department of Undergraduate Studies in Education, Levels and Teachables.</p> <p>First Year: (a) Physics 1101 (b) Mathematics 1171 and 1172 (c) Chemistry 1110, 1130 (d) A minimum of one FCE in English, with at least one of the literature courses (English 1111 or 1112). For English Majors both English 1111 and English 1112 are required. (e) Computer Science 0411 or 1411 (f) One half-course Science elective</p> <p>Second Year: (a) Physics 2111, 2211, 2311, 2331, 2332 (b) Mathematics 2111, 2131 (c) One half- course elective (d) Education 1499 and 2399 (0.5 FCE x 2 = 1 FCE)</p> <p>Third Year: (a) Physics 2151, 3113, 3211 and 3231 (b) One half-course in Physics at the third or fourth year level (c) Mathematics 3131, 3133 (d) One half-course elective (e) Four Education electives (Education 2011 (0.5 FCE) recommended) (see Electives in the Department of Undergraduate Studies in Education Courses list)* (.25 FCE x 4 = 1 FCE) *Education 3239 may be taken for credit more than once if the topics are different. Note: Concurrent Education students should check the timetable for non-Professional Year course offerings.</p> <p>Fourth Year (Professional Year): (a) Core: (i) Education 4417, 4418 and 4470 (.25 FCE x 2 + 0.5 FCE x 1 = .75 FCE) (ii) Education 4412, 4413, 4414 and 4416 (.25 FCE x 4 = 1 FCE) (b) Curriculum and Instruction in Intermediate-Senior Education: (i) Education 4213 or, if teachable is English, one</p>	<p>Four Year program A cumulative average of 65% in all courses is required. See Department of Undergraduate Studies in Education, Academic Regulation #2, regarding the average in the major.</p> <p>Students must choose two teachable subjects. See Department of Undergraduate Studies in Education, Levels and Teachables.</p> <p>First Year: (a) Physics 1101 and Physics 1111 (b) Mathematics 1171 and 1172 (c) Chemistry 1110, 1130 (d) A minimum of one FCE in English, with at least one of the literature courses (English 1111 or 1112). For English Majors both English 1111 and English 1112 are required. (e) Computer Science 0411 or 1411 (f) One half-course Science elective</p> <p>Second Year: (a) Physics 2111, 2211, 2311, 2331, 2332 (b) Mathematics 2111, 2131 (c) One half- course elective (d) Education 1499 and 2399 (0.5 FCE x 2 = 1 FCE)</p> <p>Third Year: (a) Physics 2151, 3113, 3211 and 3231 (b) One half-course in Physics at the third or fourth year level (c) Mathematics 3131, 3133 (d) One half-course elective (e) Four Education electives (Education 2011 (0.5 FCE) recommended) (see Electives in the Department of Undergraduate Studies in Education Courses list)* (.25 FCE x 4 = 1 FCE) *Education 3239 may be taken for credit more than once if the topics are different. Note: Concurrent Education students should check the timetable for non-Professional Year course offerings.</p> <p>Fourth Year (Professional Year): (a) Core: (i) Education 4417, 4418 and 4470 (.25 FCE x 2 + 0.5 FCE x 1 = .75 FCE) (ii) Education 4412, 4413, 4414 and 4416 (.25 FCE x 4 = 1 FCE) (b) Curriculum and Instruction in Intermediate-Senior Education: (i) Education 4213 or, if teachable is English, one</p>

Zone 2: Budgetary Considerations	
Current Version	Proposed Version
Please Complete Each Section and provide explanations for both Yes and No answers.	Please Complete Each Section and provide explanations for both Yes and No answers.
Student Enrolment:	[?]
Student Enrolment Other Units:	[?]
Additional Resources:	[?]
Teaching Loads:	[?]
Teaching Support Services :	[?]
Outside Support:	[?]

[Back](#)

Navigator Suite



My Account

User: **Amanda Trevisanutto**

[Manage Your Account](#)

Edit Resources

My Curriculum

Assigned curriculum requests (28) [view](#)

Submitted curriculum requests (0) [view](#)

Your working folder contains: [view](#)

- 0 curriculum requests
- 0 courses
- 0 degrees
- 0 programs

Quick Links

Manage Degrees

[Search For Degree](#)

- Copy Degree
- Create New Version of Degree
- Discontinue Degree

[Catalog](#) [Curriculum](#) [Admin](#)

[Logout](#) | [Home](#)

Degree Details

[Generate Pdf Report](#)

Degree Details **Requirements** **Supporting Documents**

Justification: This change is to fulfill the objective in the Academic Action Plan to "Restructure existing 1.0 FCE courses (not including special project, thesis, or directed study type courses) into 0.5 FCE courses to remove unnecessary barriers for students transferring from colleges and/or other universities."

Degree Status: In Workflow Request ([View History](#))

Change Type: New Version

Zone 1: Required Information

	Current Version	Proposed Version
	QUALITY ASSURANCE	QUALITY ASSURANCE
	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements
Program Code:	HBSCBED.GLPY.IS	HBSCBED.GLPY.IS
AcademicLevel:	Undergraduate	Undergraduate
StartTerm:	Fall 2003	Fall 2003F-W 2013-14
EndTerm:	No Specified End Date	No Specified End Date [?]
InstitutionUnit:	<ul style="list-style-type: none"> Lakehead University Faculty of Education 	<ul style="list-style-type: none"> Lakehead University Faculty of Education
Title:	Honours BSc, BEd (Geology with Major Concentration in Physics) I/S	Honours BSc, BEd (Geology with Major Concentration in Physics) I/S
DegreeType:	HBSED	HBSED
Major:	GLPY	GLPY
Minor:		
Specialization:		
Rationale for this proposal:		This change is to fulfill the objective in the Academic Program Review project, thesis, or directed study type courses) in order to remove unnecessary barriers for students from colleges and/or other universities."
Description:	HBScBEd IS (Geol con Phys)	HBScBEd IS (Geol con Phys)
Credits:		
Requirements:	<p>Five Year program A five year program leading to a background suitable for those seeking a career in geophysics.</p> <p>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:</p> <ol style="list-style-type: none"> 1 FCE in English, French or an Indigenous language Education 4417 and 4418 (.25 FCE x 2 = .5 FCE) Education 4412, 4413, 4416 (.25 x 3 = .75 FCE) 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) A minimum cumulative and teachable average of 65% and a minimum major average of 70%. 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, 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. 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. <p>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.</p> <p>First Year: (a) Geology 1111, 1131 (b) Physics 1101 (c) Chemistry 1110, 1130 (d) English 1011 and 1031 (e) Mathematics 1210 and 1230 or 1151 and 1152 or 1171 and 1172</p> <p>Note: 1. 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>Five Year program A five year program leading to a background suitable for those seeking a career in geophysics.</p> <p>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:</p> <ol style="list-style-type: none"> 1 FCE in English, French or an Indigenous language Education 4417 and 4418 (.25 FCE x 2 = .5 FCE) Education 4412, 4413, 4416 (.25 x 3 = .75 FCE) 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) A minimum cumulative and teachable average of 65% and a minimum major average of 70%. 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, 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. 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. <p>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.</p> <p>First Year: (a) Geology 1111, 1131 (b) Physics 1101 and Physics II 1XXX (c) Chemistry 1110, 1130 (d) English 1011 and 1031 (e) Mathematics 1210 and 1230 or 1151 and 1152 or 1171 and 1172</p> <p>Note: 1. 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>

Zone 2: Budgetary Considerations	
Current Version	Proposed Version
Please Complete Each Section and provide explanations for both Yes and No answers.	Please Complete Each Section and provide explanations for both Yes and No answers.
Student Enrolment:	[?]
Student Enrolment Other Units:	[?]
Additional Resources:	[?]
Teaching Loads:	[?]
Teaching Support Services :	[?]
Outside Support:	[?]

[Back](#)

Navigator Suite



My Account

User: **Amanda Trevisanutto**

[Manage Your Account](#)

Edit Resources

My Curriculum

Assigned curriculum requests (28) [view](#)

Submitted curriculum requests (0) [view](#)

Your working folder contains: [view](#)

- 0 curriculum requests
- 0 courses
- 0 degrees
- 0 programs

Quick Links

Manage Degrees

[Search For Degree](#)

- Copy Degree
- Create New Version of Degree
- Discontinue Degree

[Catalog](#) [Curriculum](#) [Admin](#)

[Logout](#) | [Home](#)

Degree Details

[Generate Pdf Report](#)

Degree Details **Requirements** **Supporting Documents**

Justification: This change is to fulfill the objective in the Academic Action Plan to "Restructure existing 1.0 FCE courses (not including special project, thesis, or directed study type courses) into 0.5 FCE courses to remove unnecessary barriers for students transferring from colleges and/or other universities."

Degree Status: In Workflow Request ([View History](#))

Change Type: New Version

Zone 1: Required Information

	Current Version	Proposed Version
	QUALITY ASSURANCE	QUALITY ASSURANCE
	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements
Program Code:	HBSCBED.GLPY.JI	HBSCBED.GLPY.JI
AcademicLevel:	Undergraduate	Undergraduate
StartTerm:	Fall 2003	Fall-2003F-W 2013-14
EndTerm:	No Specified End Date	No Specified End Date [?]
InstitutionUnit:	<ul style="list-style-type: none"> Lakehead University Faculty of Education 	<ul style="list-style-type: none"> Lakehead University Faculty of Education
Title:	Honours BSc, BEd (Geology with Major Concentration in Physics) J/I	Honours BSc, BEd (Geology with Major Concentration in Physics) J/I
DegreeType:	HBSED	HBSED
Major:	GLPY	GLPY
Minor:		
Specialization:		
Rationale for this proposal:		This change is to fulfill the objective in the Academic Program Review project, thesis, or directed study type courses) in order to remove unnecessary barriers for students from colleges and/or other universities."
Description:	HBScBEJ JI (Geol con Phys)	HBScBEJ JI (Geol con Phys)
Credits:		
Requirements:	<p>Five Year program</p> <p>A five year program leading to a background suitable for those seeking a career in geophysics.</p> <p>Prior to Entry into Professional Year</p> <p>In concurrent education programs at the Junior/Intermediate level, students must meet and complete requirements of the partnering honours bachelor degree program prior to entry into the Professional Year including:</p> <ol style="list-style-type: none"> 1 FCE in English, French or an Indigenous language 1 FCE in Science (<u>General Science 1000</u> recommended) (see <u>Concurrent Bachelor of Education, Concurrent Content Regulations, #1</u> regarding eligible Science courses) One half-course in Music or Visual Arts (<u>Visual Arts 0510</u> recommended) <u>Education 2011</u> (.5 FCE) <u>Education 4417</u> and <u>4418</u> (.25 FCE x 2 = .5 FCE) <u>Education 4412, 4413, 4416</u>, and one Education elective (see <u>Electives in the Department of Undergraduate Studies in Education Courses list</u>) (.25 x 4 = 1 FCE) At least 3 FCEs in a teachable subject, with at least one half-course (i.e., a minimum of 0.5 FCE) at the third or fourth-year level, 5 FCEs if the teachable is French, a Music or Visual Arts degree if the teachable is Music or Visual Arts, and a Computer Science degree if the teachable is Computer Studies. <u>For recognized J/I teachable subjects and exceptions to the above regulation see Department of Undergraduate Studies in Education Levels and Teachables section.</u> A minimum cumulative and teachable average of 65% and a minimum major average of 70%. Students in the Honours BA, BEd (Indigenous Learning Major) are required to take one FCE in Native Language, <u>Visual Arts 2060/Indigenous Learning 2060</u> and <u>English 2702/Indigenous Learning 2702</u>. Students should also take one FCE in English at the first-year level, including at least one of <u>English 1111</u> or <u>1112</u>, in the First Year. Students are encouraged to choose either <u>Education 3235</u> or <u>3270</u> as their Education elective. <p>Note:</p> <p>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.</p> <p>First Year:</p> <ol style="list-style-type: none"> Geology 1111, 1131 Physics 1101 Chemistry 1110, 1130 English 1011 and 1031 Mathematics 1210 and 1230 or 1151 and 1152 or 1171 and 1172 <p>Note:</p> <p>1. Mathematics</p> <p>Students who lack high school MHF4U (Advanced Functions) or its</p>	<p>Five Year program</p> <p>A five year program leading to a background suitable for those seeking a career in geophysics.</p> <p>Prior to Entry into Professional Year</p> <p>In concurrent education programs at the Junior/Intermediate level, students must meet and complete requirements of the partnering honours bachelor degree program prior to entry into the Professional Year including:</p> <ol style="list-style-type: none"> 1 FCE in English, French or an Indigenous language 1 FCE in Science (<u>General Science 1000</u> recommended) (see <u>Concurrent Bachelor of Education, Concurrent Content Regulations, #1</u> regarding eligible Science courses) One half-course in Music or Visual Arts (<u>Visual Arts 0510</u> recommended) <u>Education 2011</u> (.5 FCE) <u>Education 4417</u> and <u>4418</u> (.25 FCE x 2 = .5 FCE) <u>Education 4412, 4413, 4416</u>, and one Education elective (see <u>Electives in the Department of Undergraduate Studies in Education Courses list</u>) (.25 x 4 = 1 FCE) At least 3 FCEs in a teachable subject, with at least one half-course (i.e., a minimum of 0.5 FCE) at the third or fourth-year level, 5 FCEs if the teachable is French, a Music or Visual Arts degree if the teachable is Music or Visual Arts, and a Computer Science degree if the teachable is Computer Studies. <u>For recognized J/I teachable subjects and exceptions to the above regulation see Department of Undergraduate Studies in Education Levels and Teachables section.</u> A minimum cumulative and teachable average of 65% and a minimum major average of 70%. Students in the Honours BA, BEd (Indigenous Learning Major) are required to take one FCE in Native Language, <u>Visual Arts 2060/Indigenous Learning 2060</u> and <u>English 2702/Indigenous Learning 2702</u>. Students should also take one FCE in English at the first-year level, including at least one of <u>English 1111</u> or <u>1112</u>, in the First Year. Students are encouraged to choose either <u>Education 3235</u> or <u>3270</u> as their Education elective. <p>Note:</p> <p>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.</p> <p>First Year:</p> <ol style="list-style-type: none"> Geology 1111, 1131 Physics 1101 and Physics II 1XXX Chemistry 1110, 1130 English 1011 and 1031 Mathematics 1210 and 1230 or 1151 and 1172 <p>Note:</p> <p>1. Mathematics</p> <p>Students who lack high school MHF4U (Advanced Functions) or its</p>

Zone 2: Budgetary Considerations	
Current Version	Proposed Version
Please Complete Each Section and provide explanations for both Yes and No answers.	Please Complete Each Section and provide explanations for both Yes and No answers.
Student Enrolment:	[?]
Student Enrolment Other Units:	[?]
Additional Resources:	[?]
Teaching Loads:	[?]
Teaching Support Services :	[?]
Outside Support:	[?]

[Back](#)

Navigator Suite



My Account

User: **Amanda Trevisanutto**

[Manage Your Account](#)

Edit Resources

My Curriculum

Assigned curriculum requests (28) [view](#)

Submitted curriculum requests (0) [view](#)

Your working folder contains: [view](#)

- 0 curriculum requests
- 0 courses
- 0 degrees
- 0 programs

Quick Links

Manage Degrees

[Search For Degree](#)

- Copy Degree
- Create New Version of Degree
- Discontinue Degree

[Catalog](#) [Curriculum](#) [Admin](#)

[Logout](#) | [Home](#)

Degree Details

[Generate Pdf Report](#)

Degree Details **Requirements** **Supporting Documents**

Justification: This change is to fulfill the objective in the Academic Action Plan to "Restructure existing 1.0 FCE courses (not including special project, thesis, or directed study type courses) into 0.5 FCE courses to remove unnecessary barriers for students transferring from colleges and/or other universities."

Degree Status: In Workflow Request ([View History](#))

Change Type: New Version

Zone 1: Required Information

	Current Version	Proposed Version
	QUALITY ASSURANCE	QUALITY ASSURANCE
	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements
Program Code:	HBSCBED.GLPY.PJ	HBSCBED.GLPY.PJ
AcademicLevel:	Undergraduate	Undergraduate
StartTerm:	Fall 2003	Fall-2003F-W 2013-14
EndTerm:	No Specified End Date	No Specified End Date [?]
InstitutionUnit:	<ul style="list-style-type: none"> Lakehead University Faculty of Education 	<ul style="list-style-type: none"> Lakehead University Faculty of Education
Title:	Honours BSc, BEd (Geology with Major Concentration in Physics) P/J	Honours BSc, BEd (Geology with Major Concentration in Physics) P/J
DegreeType:	HBSED	HBSED
Major:	GLPY	GLPY
Minor:		
Specialization:		
Rationale for this proposal:		This change is to fulfill the objective in the Academic Plan to "Restructure existing 1.0 FCE courses (not including project, thesis, or directed study type courses) in order to remove unnecessary barriers for students from colleges and/or other universities."
Description:	HBScBEd PJ (Geol con Phys)	HBScBEd PJ (Geol con Phys)
Credits:		
Requirements:	<p>Five Year program A five year program leading to a background suitable for those seeking a career in geophysics.</p> <p>Prior to Entry into Professional Year In concurrent Education programs at the Primary/Junior level, students must meet and complete requirements of the partnering honours bachelor degree program prior to entry into the Professional Year including:</p> <ol style="list-style-type: none"> 1 FCE in <u>English, French</u> or an <u>Indigenous language</u> 1 FCE in Science (<u>General Science 1000</u> recommended) (see <u>Concurrent Bachelor of Education, Concurrent Content Regulations, #1</u> regarding eligible Science courses) One half-course in <u>Music</u> or <u>Visual Arts</u> <u>Visual Arts 0510</u> recommended) <u>Education 2010</u> (.5 FCE) <u>Education 4417</u> and <u>4418</u> (.25 FCE x 2 = .5 FCE) <u>Education 4412, 4413, 4416</u>, and one Education elective (see <u>Electives in the Department of Undergraduate Studies in Education Courses list</u>) (.25 FCE x 4=1 FCE) A minimum cumulative average of 65% and a minimum major average of 70% Students in the Honours BA, BEd (Indigenous Learning Major) are required to take one FCE in Native Language, <u>Visual Arts 2060/Indigenous Learning 2060</u> and <u>English 2702/Indigenous Learning 2702</u>. Students should also take one FCE in English at the first-year level, including at least one of <u>English 1111</u> or <u>1112</u>, in the First Year. Students are encouraged to choose either <u>Education 3235</u> or <u>3270</u> as their Education elective. <p>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.</p> <p>First Year:</p> <ol style="list-style-type: none"> Geology 1111, 1131 Physics 1101 Chemistry 1110, 1130 English 1011 and 1031 Mathematics 1210 and 1230 or 1151 and 1152 or 1171 and 1172 <p>Note: 1. 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>Second Year:</p> <ol style="list-style-type: none"> Geology 2112, 2214, 2217, 2310, 2318 Physics 2151, 2311 Mathematics 2111 	<p>Five Year program A five year program leading to a background suitable for those seeking a career in geophysics.</p> <p>Prior to Entry into Professional Year In concurrent Education programs at the Primary/Junior level, students must meet and complete requirements of the partnering honours bachelor degree program prior to entry into the Professional Year including:</p> <ol style="list-style-type: none"> 1 FCE in <u>English, French</u> or an <u>Indigenous language</u> 1 FCE in Science (<u>General Science 1000</u> recommended) (see <u>Concurrent Bachelor of Education, Concurrent Content Regulations, #1</u> regarding eligible Science courses) One half-course in <u>Music</u> or <u>Visual Arts</u> <u>Visual Arts 0510</u> recommended) <u>Education 2010</u> (.5 FCE) <u>Education 4417</u> and <u>4418</u> (.25 FCE x 2 = .5 FCE) <u>Education 4412, 4413, 4416</u>, and one Education elective (see <u>Electives in the Department of Undergraduate Studies in Education Courses list</u>) (.25 FCE x 4=1 FCE) A minimum cumulative average of 65% and a minimum major average of 70% Students in the Honours BA, BEd (Indigenous Learning Major) are required to take one FCE in Native Language, <u>Visual Arts 2060/Indigenous Learning 2060</u> and <u>English 2702/Indigenous Learning 2702</u>. Students should also take one FCE in English at the first-year level, including at least one of <u>English 1111</u> or <u>1112</u>, in the First Year. Students are encouraged to choose either <u>Education 3235</u> or <u>3270</u> as their Education elective. <p>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.</p> <p>First Year:</p> <ol style="list-style-type: none"> Geology 1111, 1131 Physics 1101, 1XXX and Physics II 1XXX Chemistry 1110, 1130 English 1011 and 1031 Mathematics 1210 and 1230 or 1151 and 1172 <p>Note: 1. 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 1172 is taken in Year 2.</p> <p>Second Year:</p> <ol style="list-style-type: none"> Geology 2112, 2214, 2217, 2310, 2318 Physics 2151, 2311 Mathematics 2111

Zone 2: Budgetary Considerations	
Current Version	Proposed Version
Please Complete Each Section and provide explanations for both Yes and No answers.	Please Complete Each Section and provide explanations for both Yes and No answers.
Student Enrolment:	[?]
Student Enrolment Other Units:	[?]
Additional Resources:	[?]
Teaching Loads:	[?]
Teaching Support Services :	[?]
Outside Support:	[?]

[Back](#)

Navigator Suite



My Account

User: **Amanda Trevisanutto**

[Manage Your Account](#)

Edit Resources

My Curriculum

Assigned curriculum requests (28) [view](#)

Submitted curriculum requests (0) [view](#)

Your working folder contains: [view](#)

- 0 curriculum requests
- 0 courses
- 0 degrees
- 0 programs

Quick Links

Manage Degrees

[Search For Degree](#)

- Copy Degree
- Create New Version of Degree
- Discontinue Degree

[Catalog](#) [Curriculum](#) [Admin](#)

[Logout](#) | [Home](#)

Degree Details

[Generate Pdf Report](#)

Degree Details **Requirements** **Supporting Documents**

Justification: This change is to fulfill the objective in the Academic Action Plan to "Restructure existing 1.0 FCE courses (not including special project, thesis, or directed study type courses) into 0.5 FCE courses to remove unnecessary barriers for students transferring from colleges and/or other universities."

Degree Status: In Workflow Request ([View History](#))

Change Type: New Version

Zone 1: Required Information

	Current Version	Proposed Version
	QUALITY ASSURANCE	QUALITY ASSURANCE
	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements
Program Code:	HBSCBED.PHYS.IS	HBSCBED.PHYS.IS
AcademicLevel:	Undergraduate	Undergraduate
StartTerm:	Fall 1999	Fall 1999F-W 2013-14
EndTerm:	No Specified End Date	No Specified End Date [?]
InstitutionUnit:	<ul style="list-style-type: none"> Lakehead University Faculty of Education 	<ul style="list-style-type: none"> Lakehead University Faculty of Education
Title:	Honours BSc, BEd (Physics Major) I/S	Honours BSc, BEd (Physics Major) I/S
DegreeType:	HBSED	HBSED
Major:	PHYS	PHYS
Minor:		
Specialization:		
Rationale for this proposal:		This change is to fulfill the objective in the Acad "Restructure existing 1.0 FCE courses (not including project, thesis, or directed study type courses) in courses to remove unnecessary barriers for students from colleges and/or other universities."
Description:	HBScBEd IS (Physics)	HBScBEd IS (Physics)
Credits:		
Requirements:	Five Year program A cumulative average of 70% in all Physics courses is required.	Five Year program A cumulative average of 70% in all Physics courses is required.
	<p>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:</p> <ol style="list-style-type: none"> 1 FCE in <u>English</u>, <u>French</u> or an <u>Indigenous language</u> <u>Education 4417</u> and <u>4418</u> (.25 FCE x 2 = .5 FCE) <u>Education 4412</u>, <u>4413</u>, <u>4416</u> (.25 x 3 = .75 FCE) Three Education electives (.25 x 3 = .75 FCE) (see Electives in the Department of Undergraduate Studies in Education Courses list) (<u>Education 2011</u> (0.5 FCE) is recommended) A minimum cumulative and teachable average of 65% and a minimum major average of 70%. 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, and a Computer Science, Music or Visual Arts degree if the teachable is Computer Studies, Music or Visual Arts). <u>For recognized I/S teachable subjects and exceptions to the above regulation see Department of Undergraduate Studies in Education, Levels and Teachables section.</u> Students in the Honours BA, BEd (Indigenous Learning Major) are required to take one FCE in Native Language, <u>Visual Arts 2060/Indigenous Learning 2060</u> and <u>English 2702/Indigenous Learning 2702</u>. Students are encouraged to take one FCE in English at the first-year level, including at least one of <u>English 1111</u> or <u>1112</u>, in the First Year. Students are encouraged to choose either <u>Education 3235</u> or <u>3270</u> as their Education elective. <p>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.</p> <p>First Year: (a) Physics 1101 (b) <u>Mathematics 1171</u> and <u>1172</u> (c) <u>Chemistry 1110</u>, <u>1130</u> (d) One and one-half FCE elective. (e) <u>Computer Science 0411</u> or <u>1411</u></p> <p>Second Year: (a) <u>Physics 2111</u>, <u>2151</u>, <u>2211</u>, <u>2311</u>, <u>2331</u> and <u>2332</u> (b) <u>Mathematics 2111</u> and <u>2131</u> (d) One FCE elective</p> <p>Third Year: (a) <u>Physics 3113</u>, <u>3211</u> and <u>3231</u> (b) <u>Physics 4113</u> or <u>4171</u> (c) <u>Physics 3371</u> or <u>4211</u> (d) A Physics half-course elective at the third or fourth year level</p>	<p>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:</p> <ol style="list-style-type: none"> 1 FCE in <u>English</u>, <u>French</u> or an <u>Indigenous language</u> <u>Education 4417</u> and <u>4418</u> (.25 FCE x 2 = .5 FCE) <u>Education 4412</u>, <u>4413</u>, <u>4416</u> (.25 x 3 = .75 FCE) Three Education electives (.25 x 3 = .75 FCE) (see Electives in the Department of Undergraduate Studies in Education Courses list) (<u>Education 2011</u> (0.5 FCE) is recommended) A minimum cumulative and teachable average of 65% and a minimum major average of 70%. 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, and a Computer Science, Music or Visual Arts degree if the teachable is Computer Studies, Music or Visual Arts). <u>For recognized I/S teachable subjects and exceptions to the above regulation see Department of Undergraduate Studies in Education, Levels and Teachables section.</u> Students in the Honours BA, BEd (Indigenous Learning Major) are required to take one FCE in Native Language, <u>Visual Arts 2060/Indigenous Learning 2060</u> and <u>English 2702/Indigenous Learning 2702</u>. Students are encouraged to take one FCE in English at the first-year level, including at least one of <u>English 1111</u> or <u>1112</u>, in the First Year. Students are encouraged to choose either <u>Education 3235</u> or <u>3270</u> as their Education elective. <p>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.</p> <p>First Year: (a) Physics 1101 and Physics II 1XXX (b) <u>Mathematics 1171</u> and <u>1172</u> (c) <u>Chemistry 1110</u>, <u>1130</u> (d) One and one-half FCE elective. (e) <u>Computer Science 0411</u> or <u>1411</u></p> <p>Second Year: (a) <u>Physics 2111</u>, <u>2151</u>, <u>2211</u>, <u>2311</u>, <u>2331</u> and <u>2332</u> (b) <u>Mathematics 2111</u> and <u>2131</u> (d) One FCE elective</p> <p>Third Year: (a) <u>Physics 3113</u>, <u>3211</u> and <u>3231</u> (b) <u>Physics 4113</u> or <u>4171</u> (c) <u>Physics 3371</u> or <u>4211</u> (d) A Physics half-course elective at the third or fourth year level</p>

Zone 2: Budgetary Considerations	
Current Version	Proposed Version
Please Complete Each Section and provide explanations for both Yes and No answers.	Please Complete Each Section and provide explanations for both Yes and No answers.
Student Enrolment:	[?]
Student Enrolment Other Units:	[?]
Additional Resources:	[?]
Teaching Loads:	[?]
Teaching Support Services :	[?]
Outside Support:	[?]

[Back](#)

Navigator Suite



My Account

User: **Amanda Trevisanutto**

[Manage Your Account](#)

Edit Resources

My Curriculum

Assigned curriculum requests (28) [view](#)

Submitted curriculum requests (0) [view](#)

Your working folder contains: [view](#)

- 0 curriculum requests
- 0 courses
- 0 degrees
- 0 programs

Quick Links

Manage Degrees

[Search For Degree](#)

- Copy Degree
- Create New Version of Degree
- Discontinue Degree

[Catalog](#) [Curriculum](#) [Admin](#)

[Logout](#) | [Home](#)

Degree Details

[Generate Pdf Report](#)

Degree Details **Requirements** **Supporting Documents**

Justification: This change is to fulfill the objective in the Academic Action Plan to "Restructure existing 1.0 FCE courses (not including special project, thesis, or directed study type courses) into 0.5 FCE courses to remove unnecessary barriers for students transferring from colleges and/or other universities."

Degree Status: In Workflow Request ([View History](#))

Change Type: New Version

Zone 1: Required Information

	Current Version	Proposed Version
	QUALITY ASSURANCE	QUALITY ASSURANCE
	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements
Program Code:	HBSCBED.PHYS.JI	HBSCBED.PHYS.JI
AcademicLevel:	Undergraduate	Undergraduate
StartTerm:	Fall 2003	Fall-2003F-W 2013-14
EndTerm:	No Specified End Date	No Specified End Date [?]
InstitutionUnit:	<ul style="list-style-type: none"> Lakehead University Faculty of Education 	<ul style="list-style-type: none"> Lakehead University Faculty of Education
Title:	Honours BSc, BEd (Physics Major) J/I	Honours BSc, BEd (Physics Major) J/I
DegreeType:	HBSED	HBSED
Major:	PHYS	PHYS
Minor:		
Specialization:		
Rationale for this proposal:		This change is to fulfill the objective in the Acad "Restructure existing 1.0 FCE courses (not includ project, thesis, or directed study type courses) i courses to remove unnecessary barriers for stud from colleges and/or other universities."
Description:	HBScBEd JI (Physics)	HBScBEd JI (Physics)
Credits:		
Requirements:	Five Year program A cumulative average of 70% in all Physics courses is required.	Five Year program A cumulative average of 70% in all Physics cour:
	<p>Prior to Entry into Professional Year In concurrent education programs at the Junior/Intermediate level, students must meet and complete requirements of the partnering honours bachelor degree program prior to entry into the Professional Year including:</p> <ol style="list-style-type: none"> 1 FCE in English, French or an Indigenous language 1 FCE in Science (General Science 1000 recommended) (see Concurrent Bachelor of Education, Concurrent Content Regulations, #1 regarding eligible Science courses) One half-course in Music or Visual Arts (Visual Arts 0510) recommended) Education 2011 (.5 FCE) Education 4417 and 4418 (.25 FCE x 2 = .5 FCE) Education 4412, 4413, 4416, and one Education elective (see Electives in the Department of Undergraduate Studies in Education Courses list) (.25 x 4 = 1 FCE) At least 3 FCEs in a teachable subject, with at least one half-course (i.e., a minimum of 0.5 FCE) at the third or fourth-year level, 5 FCEs if the teachable is French, a Music or Visual Arts degree if the teachable is Music or Visual Arts, and a Computer Science degree if the teachable is Computer Studies. For recognized J/I teachable subjects and exceptions to the above regulation see Department of Undergraduate Studies in Education, Levels and Teachables section. A minimum cumulative and teachable average of 65% and a minimum major average of 70%. 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 should also 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. <p>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.</p> <p>First Year: (a) Physics 1101 (b) Mathematics 1171 and 1172 (c) Chemistry 1110, 1130 (d) One and one-half FCE elective. (e) Computer Science 0411 or 1411</p> <p>Second Year: (a) Physics 2111, 2151, 2211, 2311, 2331 and 2332 (b) Mathematics 2111 and 2131 (d) One FCE elective</p> <p>Third Year:</p>	<p>Prior to Entry into Professional Year In concurrent education programs at the Junior/ students must meet and complete requirements honours bachelor degree program prior to entry Professional Year including:</p> <ol style="list-style-type: none"> 1 FCE in English, French or an Indigenous lan 1 FCE in Science (General Science 1000 recor Concurrent Bachelor of Education, Concurrent Cr #1 regarding eligible Science courses) One half-course in Music or Visual Arts (Visua Courses list) (.25 x 4 = 1 FCE) Education 2011 (.5 FCE) Education 4417 and 4418 (.25 FCE x 2 = .5 F Education 4412, 4413, 4416, and one Educati Electives in the Department of Undergraduate Si Courses list) (.25 x 4 = 1 FCE) At least 3 FCEs in a teachable subject, with at half-course (i.e., a minimum of 0.5 FCE) at the t fourth-year level, 5 FCEs if the teachable is Fren Visual Arts degree if the teachable is Music or Vi Computer Science degree if the teachable is Con recognized J/I teachable subjects and exception regulation see Department of Undergraduate Stu Education, Levels and Teachables section. A minimum cumulative and teachable average minimum major average of 70%. Students in the Honours BA, BEd (Indigenous are required to take one FCE in Native Language 2060/Indigenous Learning 2060 and English 27C Learning 2702. Students should also take one F first-year level, including at least one of English the First Year. Students are encouraged to choo: 3235 or 3270 as their Education elective. <p>Note: For students in concurrent honours bachelor deg (two) FCEs of required Education courses will be electives in the HBSc program, prior to entering Year.</p> <p>First Year: (a) Physics 1101 and Physics II 1XXX (b) Mathematics 1171 and 1172 (c) Chemistry 1110, 1130 (d) One and one-half FCE elective. (e) Computer Science 0411 or 1411</p> <p>Second Year: (a) Physics 2111, 2151, 2211, 2311, 2331 and 2332 (b) Mathematics 2111 and 2131 (d) One FCE elective</p> <p>Third Year:</p>

Zone 2: Budgetary Considerations	
Current Version	Proposed Version
Please Complete Each Section and provide explanations for both Yes and No answers.	Please Complete Each Section and provide explanations for both Yes and No answers.
Student Enrolment:	[?]
Student Enrolment Other Units:	[?]
Additional Resources:	[?]
Teaching Loads:	[?]
Teaching Support Services :	[?]
Outside Support:	[?]

[Back](#)

Navigator Suite



My Account

User: **Amanda Trevisanutto**

[Manage Your Account](#)

Edit Resources

My Curriculum

Assigned curriculum requests (28) [view](#)

Submitted curriculum requests (0) [view](#)

Your working folder contains: [view](#)

- 0 curriculum requests
- 0 courses
- 0 degrees
- 0 programs

Quick Links

Manage Degrees

[Search For Degree](#)

- Copy Degree
- Create New Version of Degree
- Discontinue Degree

[Catalog](#) [Curriculum](#) [Admin](#)

[Logout](#) | [Home](#)

Degree Details

[Generate Pdf Report](#)

Degree Details **Requirements** **Supporting Documents**

Justification: This change is to fulfill the objective in the Academic Action Plan to "Restructure existing 1.0 FCE courses (not including special project, thesis, or directed study type courses) into 0.5 FCE courses to remove unnecessary barriers for students transferring from colleges and/or other universities."

Degree Status: In Workflow Request ([View History](#))

Change Type: New Version

Zone 1: Required Information

	Current Version	Proposed Version
	QUALITY ASSURANCE	QUALITY ASSURANCE
	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements
Program Code:	HBSCBED.PHYS.PJ	HBSCBED.PHYS.PJ
AcademicLevel:	Undergraduate	Undergraduate
StartTerm:	Fall 2003	Fall-2003F-W 2013-14
EndTerm:	No Specified End Date	No Specified End Date [?]
InstitutionUnit:	<ul style="list-style-type: none"> Lakehead University Faculty of Education 	<ul style="list-style-type: none"> Lakehead University Faculty of Education
Title:	Honours BSc, BEd (Physics Major) P/J	Honours BSc, BEd (Physics Major) P/J
DegreeType:	HBSED	HBSED
Major:	PHYS	PHYS
Minor:		
Specialization:		
Rationale for this proposal:		This change is to fulfill the objective in the Acad: "Restructure existing 1.0 FCE courses (not including project, thesis, or directed study type courses) in courses to remove unnecessary barriers for students from colleges and/or other universities."
Description:	HBScBEd PJ (Physics)	HBScBEd PJ (Physics)
Credits:		
Requirements:	Five Year program A cumulative average of 70% in all Physics courses is required.	Five Year program A cumulative average of 70% in all Physics courses is required.
	<p>Prior to Entry into Professional Year In concurrent Education programs at the Primary/Junior level, students must meet and complete requirements of the partnering honours bachelor degree program prior to entry into the Professional Year including:</p> <ol style="list-style-type: none"> 1 FCE in English, French or an Indigenous language 1 FCE in Science (General Science 1000 recommended) (see Concurrent Bachelor of Education, Concurrent Content Regulations, #1 regarding eligible Science courses) One half-course in Music or Visual Arts (Visual Arts 0510) recommended) Education 2010 (.5 FCE) Education 4417 and 4418 (.25 FCE x 2 = .5 FCE) Education 4412, 4413, 4416, and one Education elective (see Electives in the Department of Undergraduate Studies in Education Courses List) (.25 FCE x 4 = 1 FCE) A minimum cumulative average of 65% and a minimum major average of 70% 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 should also 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. <p>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.</p> <p>First Year: (a) Physics 1101 (b) Mathematics 1171 and 1172 (c) Chemistry 1110, 1130 (d) One and one-half FCE elective. (e) Computer Science 0411 or 1411</p> <p>Second Year: (a) Physics 2111, 2151, 2211, 2311, 2331 and 2332 (b) Mathematics 2111 and 2131 (d) One FCE elective</p> <p>Third Year: (a) Physics 3113, 3211 and 3231 (b) Physics 4113 or 4171 (c) Physics 3371 or 4211 (d) A Physics half-course elective at the third or fourth year level (e) Mathematics 3131 and 3133 (f) One FCE elective</p> <p>Fourth Year:</p>	<p>Prior to Entry into Professional Year In concurrent Education programs at the Primary/Junior level, students must meet and complete requirements of the partnering honours bachelor degree program prior to entry into the Professional Year including:</p> <ol style="list-style-type: none"> 1 FCE in English, French or an Indigenous language 1 FCE in Science (General Science 1000 recommended) (see Concurrent Bachelor of Education, Concurrent Content Regulations, #1 regarding eligible Science courses) One half-course in Music or Visual Arts (Visual Arts 0510) recommended) Education 2010 (.5 FCE) Education 4417 and 4418 (.25 FCE x 2 = .5 FCE) Education 4412, 4413, 4416, and one Education elective (see Electives in the Department of Undergraduate Studies in Education Courses List) (.25 FCE x 4 = 1 FCE) A minimum cumulative average of 65% and a minimum major average of 70% 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 should also take one FCE in English at the first-year level, including at least one of English 1111, 1112, or 1113, in the First Year. Students are encouraged to choose either Education 3235 or 3270 as their Education elective. <p>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.</p> <p>First Year: (a) Physics 1101 and Physics II 1XXX (b) Mathematics 1171 and 1172 (c) Chemistry 1110, 1130 (d) One and one-half FCE elective. (e) Computer Science 0411 or 1411</p> <p>Second Year: (a) Physics 2111, 2151, 2211, 2311, 2331 and 2332 (b) Mathematics 2111 and 2131 (d) One FCE elective</p> <p>Third Year: (a) Physics 3113, 3211 and 3231 (b) Physics 4113 or 4171 (c) Physics 3371 or 4211 (d) A Physics half-course elective at the third or fourth year level (e) Mathematics 3131 and 3133 (f) One FCE elective</p> <p>Fourth Year:</p>

Zone 2: Budgetary Considerations	
Current Version	Proposed Version
Please Complete Each Section and provide explanations for both Yes and No answers.	Please Complete Each Section and provide explanations for both Yes and No answers.
Student Enrolment:	[?]
Student Enrolment Other Units:	[?]
Additional Resources:	[?]
Teaching Loads:	[?]
Teaching Support Services :	[?]
Outside Support:	[?]

[Back](#)

Navigator Suite



My Account

User: **Amanda Trevisanutto**

[Manage Your Account](#)

Edit Resources

My Curriculum

Assigned curriculum requests (28) [view](#)

Submitted curriculum requests (0) [view](#)

Your working folder contains: [view](#)

- 0 curriculum requests
- 0 courses
- 0 degrees
- 0 programs

Quick Links

Manage Degrees

[Search For Degree](#)

- Copy Degree
- Create New Version of Degree
- Discontinue Degree

[Catalog](#) [Curriculum](#) [Admin](#)

[Logout](#) | [Home](#)

Degree Details

[Generate Pdf Report](#)

Degree Details **Requirements** **Supporting Documents**

Justification: This change is to fulfill the objective in the Academic Action Plan to "Restructure existing 1.0 FCE courses (not including special project, thesis, or directed study type courses) into 0.5 FCE courses to remove unnecessary barriers for students transferring from colleges and/or other universities."

Degree Status: In Workflow Request ([View History](#))

Change Type: New Version

Zone 1: Required Information

	Current Version	Proposed Version
	QUALITY ASSURANCE	QUALITY ASSURANCE
	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements	Submitting a New/Change to a Program Proposal? Visit this link for the mandatory Quality Assurance Requirements
Program Code:	BSCBED.PHYS.JI	BSCBED.PHYS.JI
AcademicLevel:	Undergraduate	Undergraduate
StartTerm:	Fall 2003	Fall 2003F-W 2013-14
EndTerm:	No Specified End Date	No Specified End Date [?]
InstitutionUnit:	<ul style="list-style-type: none"> Lakehead University Faculty of Education 	<ul style="list-style-type: none"> Lakehead University Faculty of Education
Title:	BSc, BEd (Physics Major) J/I	BSc, BEd (Physics Major) J/I
DegreeType:	BSBED	BSBED
Major:	PHYS	PHYS
Minor:		
Specialization:		
Rationale for this proposal:		This change is to fulfill the objective in the Academic Action Plan to "Restructure existing 1.0 FCE courses (not including special project, thesis, or directed study type courses) into 0.5 FCE courses to remove unnecessary barriers for students transferring from colleges and/or other universities."
Description:	BScBEd JI (Physics)	BScBEd JI (Physics)
Credits:		
Requirements:	<p>Four Year program A cumulative average of 65% in all courses is required. See Department of Undergraduate Studies in Education, Academic Regulation #2, regarding the average in the major.</p> <p>Students must choose a teachable subject. See Department of Undergraduate Studies in Education, Levels and Teachables.</p> <p>First Year: (a) Physics 1101 (b) Mathematics 1171 and 1172 (c) Chemistry 1110, 1130 (d) A minimum of one FCE in English, with at least one of the literature courses (English 1111 or 1112). For English Majors both English 1111 and English 1112 are required. (e) Computer Science 0411 or 1411 (f) One half-course Science elective</p> <p>Second Year: (a) Physics 2111, 2211, 2311, 2331, 2332 (b) Mathematics 2111, 2131 (c) One half-course in Music or Visual Arts (d) Education 1499 and 2399 (0.5 FCE x 2 = 1 FCE)</p> <p>Third Year: (a) Physics 2151, 3113, 3211 and 3231 (b) One half-course in Physics at the third or fourth year level (c) Mathematics 3131, 3133 (d) One half-course elective (e) Education 2011 (0.5 FCE) (f) Two Education electives (see Electives in the Department of Undergraduate Studies in Education Courses list) * (.25 FCE x 2 = 0.5 FCE) *Education 3239 may be taken for credit more than once if the topics are different. Note: Concurrent Education students should check the timetable for non-Professional Year course offerings.</p> <p>Fourth Year (Professional Year): (a) Core: (i) Education 4417, 4418 and 4470 (.25 FCE x 2 + 0.5 FCE x 1 = .75 FCE) (ii) Education 4412, 4413, 4414, and 4416 (.25 FCE x 4 = 1 FCE) (b) Curriculum and Instruction in Junior-Intermediate Education: (i) Education 4112 and 4151 (0.5 FCE x 2 = 1 FCE)</p>	<p>Four Year program A cumulative average of 65% in all courses is required. See Department of Undergraduate Studies in Education, Academic Regulation #2, regarding the average in the major.</p> <p>Students must choose a teachable subject. See Department of Undergraduate Studies in Education, Levels and Teachables.</p> <p>First Year: (a) Physics 1101 and Physics II 1XXX (b) Mathematics 1171 and 1172 (c) Chemistry 1110, 1130 (d) A minimum of one FCE in English, with at least one of the literature courses (English 1111 or 1112). For English Majors both English 1111 and English 1112 are required. (e) Computer Science 0411 or 1411 (f) One half-course Science elective</p> <p>Second Year: (a) Physics 2111, 2211, 2311, 2331, 2332 (b) Mathematics 2111, 2131 (c) One half-course in Music or Visual Arts (d) Education 1499 and 2399 (0.5 FCE x 2 = 1 FCE)</p> <p>Third Year: (a) Physics 2151, 3113, 3211 and 3231 (b) One half-course in Physics at the third or fourth year level (c) Mathematics 3131, 3133 (d) One half-course elective (e) Education 2011 (0.5 FCE) (f) Two Education electives (see Electives in the Department of Undergraduate Studies in Education Courses list) * (.25 FCE x 2 = 0.5 FCE) *Education 3239 may be taken for credit more than once if the topics are different. Note: Concurrent Education students should check the timetable for non-Professional Year course offerings.</p> <p>Fourth Year (Professional Year): (a) Core: (i) Education 4417, 4418 and 4470 (.25 FCE x 2 + 0.5 FCE x 1 = .75 FCE) (ii) Education 4412, 4413, 4414, and 4416 (.25 FCE x 4 = 1 FCE) (b) Curriculum and Instruction in Junior-Intermediate Education: (i) Education 4112 and 4151 (0.5 FCE x 2 = 1 FCE)</p>

Zone 2: Budgetary Considerations	
Current Version	Proposed Version
Please Complete Each Section and provide explanations for both Yes and No answers.	Please Complete Each Section and provide explanations for both Yes and No answers.
Student Enrolment:	[?]
Student Enrolment Other Units:	[?]
Additional Resources:	[?]
Teaching Loads:	[?]
Teaching Support Services :	[?]
Outside Support:	[?]

[Back](#)

Navigator Suite



My Account

User: **Amanda Trevisanutto**

[Manage Your Account](#)

Edit Resources

My Curriculum

Assigned curriculum requests (28) [view](#)

Submitted curriculum requests (0) [view](#)

Your working folder contains: [view](#)

- 0 curriculum requests
- 0 courses
- 0 degrees
- 0 programs

Quick Links

Manage Courses

[Add New Course](#)

[Search For Course](#)

- Copy Course
- Create New Version of Course
- Discontinue Course

[Catalog](#) [Curriculum](#) [Admin](#)

[Logout](#) | [Home](#)

Course Details

[Generate Pdf Report](#)

Course Details	Prerequisites	Corequisites	Exclusions	Cross Listed	Designations
Supporting Documents					

Course Status: In Workflow Request ([View History](#))

[Where Used Report](#)

Change Type: Discontinued

Zone1: Required Information

Proposed Version

Code: **Physics 1101**

Title: **Introductory Physics**

InstitutionUnit:

- Lakehead University

StartTerm: **Summer 2009**

EndTerm: **Spring 2010** [\[?\]](#)

Zone 2: Required Information – Detailed

Proposed Version

Rationale for this proposal: **The Faculty of Science and Environmental Studies would like to see all full 1st year courses divided into two half courses. PHYS 1101 will have to be discontinued and replaced with two new courses.**

RequiredorElective: **Required** [\[?\]](#)

Zone 3: Budgetary Considerations

Proposed Version

Please Complete Each Section and Provide Explanations for Both Yes and No Answers.

Student Enrolment: **No student enrollment will not be affected.** [\[?\]](#)

Student Enrolment Other Units: **Student enrollment in other departments will be affected. The transitional statement addresses these issues.** [\[?\]](#)

Teaching Loads: **No change in teaching assignments.** [\[?\]](#)

[Back](#)

Navigator Suite



My Account

User: Amanda Trevisanutto

[Manage Your Account](#)

Edit Resources

My Curriculum

Assigned curriculum requests (28) [view](#)

Submitted curriculum requests (0) [view](#)

Your working folder contains: [view](#)

- 0 curriculum requests
- 0 courses
- 0 degrees
- 0 programs

Quick Links

Manage Courses

[Add New Course](#)

[Search For Course](#)

- Copy Course
- Create New Version of Course
- Discontinue Course

Catalog Curriculum Admin

[Logout](#) | [Home](#)

Course Details

[Generate Pdf Report](#)

Course Details	Prerequisites	Corequisites	Exclusions	Cross Listed	Designations
Supporting Documents					

Course Status: In Workflow Request ([View History](#))

[Where Used Report](#)

Change Type: New Version

Zone 1: Required Information

	Current Version	Proposed Version
InstitutionUnit:	<ul style="list-style-type: none"> • Lakehead University • Faculty of Science and Environmental Studies 	<ul style="list-style-type: none"> • Lakehead University • Faculty of Science and Environmental Studies
StartTerm:	Summer 2009	Summer 2009 F-W 2013-14
EndTerm:	Spring 2010	Spring 2010 No Specified End Date [?]]
Code:	Physics 1101	Physics 1101 [?]
Title:	Introductory Physics	Introductory Physics I
AcademicLevel:	Undergraduate	Undergraduate
CreditWeight:	1.0	40.05

Zone 2: Required Information – Detailed

	Current Version	Proposed Version
Course Description:	A calculus-based course intended for students in the physical sciences, applied sciences and mathematics which includes the study of Newtonian mechanics for particles and rigid bodies, gravitation, oscillations, mechanical waves and sound, electricity, D.C. and A.C. circuits, electromagnetic waves and the wave properties of light, accompanied by related laboratory work. Note:	Physics 1XXX, Introductory Physics IDescription: A calculus-based course intended for students in the physical sciences, applied sciences and mathematics, which includes the study of Newtonian mechanics for particles and rigid bodies, gravitation, oscillations, mechanical waves and sound, electricity, D.C. and A.C. circuits, electromagnetic waves and the wave properties of light, rigidbodies, accompanied by related laboratory work. Note:
Rationale for this proposal:		This change is to fulfill the objective in the Academic Action Plan to "Restructure existing 1.0 FCE courses (not including special project, thesis, or directed study type courses) into 0.5 FCE courses to remove unnecessary barriers for students transferring from colleges and/or other universities."
Required or Elective:		<ul style="list-style-type: none"> • Required [?]
Cross List:		
Offering:	3-3; 3-3	3-3; 30-30 [?]

Zone 3: Additional Information

	Current Version	Proposed Version
Prerequisites:		
Corequisites:	Mathematics 1160 or 1180	Mathematics 1160-1151 or 1180 Mathematics 1171
Notes (Restrictions):	Students may receive credit for only one of Physics 1101 or 1113/1133.	Students may receive credit for only one of Physics 1101 or 1113/1133 .PHYS 1030, 1101, 1XXX, 1113 [?]

Zone 4: Budgetary Considerations		
	Current Version	Proposed Version
	Please Complete Each Section and Provide Explanations for Both Yes and No Answers.	
Student Enrolment:		No change in student enrollment. [?]
Student Enrolment Other Units:		Splitting this one year course will have an affect on other departments. [?]
Additional Resources:		No change in additional resources. [?]
Teaching Loads:		No change in teaching assignments. [?]
Teaching Support Services:		No change in teaching support services [?]
Outside Support:		No change in outside support. [?]

[Back](#)

Navigator Suite



My Account

User: **Amanda Trevisanutto**

[Manage Your Account](#)

[Edit Resources](#)

My Curriculum

Assigned curriculum requests (28) [view](#)

Submitted curriculum requests (0) [view](#)

Your working folder contains: [view](#)

- 0 curriculum requests
- 0 courses
- 0 degrees
- 0 programs

Quick Links

Manage Courses

[Add New Course](#)

[Search For Course](#)

- Copy Course
- Create New Version of Course
- Discontinue Course

[Catalog](#) [Curriculum](#) [Admin](#)

[Logout](#) | [Home](#)

Course Details

[Generate Pdf Report](#)

Course Details	Prerequisites	Corequisites	Exclusions	Cross Listed	Designations
Supporting Documents					

Course Status: In Workflow Request ([View History](#))

[Where Used Report](#)

Change Type: New

Zone1: Required Information

Proposed Version

InstitutionUnit:

- Lakehead University

StartTerm: **F-W 2013-14**

EndTerm: **No Specified End Date [?]**

Code: **PHYS 1XXX II [?]**

Title: **Introductory Physics II**

AcademicLevel: **Undergraduate**

CreditWeight: **0.5**

Zone 2: Required Information – Detailed

Proposed Version

Course Description: **A calculus-based course intended for students in the physical sciences and applied sciences which includes Oscillations, mechanical waves and sound, electric charge, electric field, Coulomb's law, Gauss's law, applications of Gauss's law, electric potential, capacitance, dielectrics, current, resistance, direct current circuit, magnetic field, electromagnetic induction, alternating current, electromagnetic waves and wave properties of light, accompanied by related laboratory work.**

Rationale for this proposal: **This change is to fulfill the objective in the Academic Action Plan to "Restructure existing 1.0 FCE courses (not including special project, thesis, or directed study type courses) into 0.5 FCE courses to remove unnecessary barriers for students transferring from colleges and/or other universities."**

Required or Elective: **Required [?]**

Cross List:

Offering: **0-0;3-3 [?]**

Zone 3: Additional Information

Proposed Version

Corequisites: **Mathematics 1151 or Mathematics 1171**

Notes (Restrictions): **Notes: Students may receive credit for only one of Physics 1030, 1101, 1XXX, 1113 [?]**

Zone 4: Budgetary Considerations

Proposed Version

Please Complete Each Section and Provide Explanations for Both Yes and No Answers.

Student Enrolment: **No this change is only needed to replace the request to split the original course PHYS 1101. [?]**

Student Enrolment Other Units: **No this change is only needed to replace the request to split the original course PHYS 1101. [?]**

Additional Resources: **The same resources for PHYS 1101 will be used. [?]**

Teaching Loads: **The same teaching load for PHYS 1101 will be assigned. [?]**

Teaching Support Services: **The same supports for PHYS 1101 will be used. [?]**

Outside Support: **No outside support is required. [?]**

[Back](#)