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

Justification: We are changing the name of the program to HBSc in Biomedical Physics. The change reflects the emerging biophysics and medical imaging expertise of the Department. It will also help differentiate this program from the existing interdisciplinary ABMS program. We are adding a new course, Medical Physics (PHYSICS 2XXX), as a requirement.

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

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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 in Biomedical Physics
DegreeType:	HBSC	HBSC
Major:	PHAP	PHAP
Minor:		
Specialization:		
Rationale for this proposal:		We are changing the name of the program to HBSc in Biomedical Physics. The change reflects the emerging biophysics and medical imaging expertise of the Department. It will also help differentiate this program from the existing interdisciplinary ABMS program. We are adding a new course, Medical Physics (PHYSICS 2XXX), as a requirement.
Description:	HBSc (Phys) w/Concn Apbi	HBSc (Phys) w/Concn Apbi
Credits:		
Requirements:	<p>Four Year program</p> <p>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:</p> <p>(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:</p> <p>(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:</p> <p>(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:</p> <p>(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:</p> <p>1. An Honours Physics Thesis (Physics 4501) can be used in place of the lab courses (Physics 4411</p>	<p>Four Year program</p> <p>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:</p> <p>(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:</p> <p>(a) Physics 2454 2211, 2311, 2331 and 2332 (b) Mathematics 2111 and Physics 2151 or Physics 2xxx (c) Mathematics 2111 and 2131 (d) Biology 2230* (e) Chemistry 2211* (f) One half-course elective</p> <p>Third Year:</p> <p>(a) Physics 2111, 3113, 3211, 3231, and 3511 (b) One half-course elective in Physics Physics 2151 or Physics 2xxx (c) Mathematics 3131 (d) Biology 2711* and 2910* (e) One half-course elective</p> <p>Fourth Year:</p> <p>(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>

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:	[?]

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