

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

## REQUEST REPORT

Request Tracking Number: 2014-SCI-3037
Request Title: HBSc (Chemistry) with a Specialization in Medical Sciences

[DeAcTerm[EffectiveDate]] [DeAc[RequestEffectiveDate]]
Request Status: In Workflow
Request can't be split

# **Request Contents**

1	Гуре	<b>)</b>	Title
1	١.	New Degree	HBSc (Chemistry) with a Specialization in Medical Science

# **Request History**

Workflow Step	Workflow Action	User	Change Made	Comments	Date
Initiator	Approved	Christine Gottardo	No	Submitted to workflow	01/24/2014
Dean and Faculty Council Review Stage	Approved	Christina Maenpaa	No	Approved at the SES Faculty Council on January 9. Approved by Dr. Dean.	01/29/2014

# **Supporting Documents**

File Name Uploaded By Upload Date Size
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# **Supporting Documents Audit Trail**

File Name	User	Date	Action
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## **Notes**

Date	User	Note
01/24/2014	Christine Gottardo	The title should read Medical Sciences and I do not know why it is being truncated.

Printed: 02/01/2014

1. New Degree

spec.mesc - HBSc (Chemistry) with a Specialization in Medical Science

#### Justification

The Department of Chemistry would like to expand its offerings by enhancing its current relationship with TBRRI. The proposed Specialization targets chemistry majors with an interest in Professional Health Programs. This course-based specialization will provide students the opportunity to combine biochemical and imaging concepts at the molecular level. The department does not have the current resources to propose a full program but would like to determine student demand through the specialization.

# **Degree Details**

spec.mesc - HBSc (Chemistry) with a Specialization in Medical Science

Start Term: Fall 2014

End Term: No Specified End Date

Required	<b>Information</b>
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#### **Institution Unit**

Faculty of Science and Environmental Studies

## **Degree Type**

**HBSC** 

## Major

Chemistry

#### Minor

## **Specialization**

**Medical Sciences** 

#### Rationale

This specialization is designed to introduce chemistry majors with an interest in professional programs to medical science courses. The specialization is course based with no thesis. Courses will provide the students the opportunity to investigate the biochemistry of biological systems and methods for detecting/imaging and designing treatments for disease. At this point the Department of Chemistry does not have the resources to create a full degree and intend to do so after having determined student demand for a full program.

#### Requirements

HBSc (Chemistry) with a Specialization in Medical Sciences

#### First Year:

- (a) Chemistry 1111, 1131
- (b) Mathematics 1171 and 1172
- (c) Physics 1211 and 1212
- (d) One FCE elective from: Anthropology 1032, Biology 1110, 1130, Computer Science 1411,1431, Geology 1110, 1130

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(e) One FCE elective in humanities or social sciences, excluding Mathematics and Computer Science (see the list of Group I and Group II subjects)
Second Year: (a) Chemistry 2111, 2231, 2351, 2411, 2412 (b) Mathematics 2111, 2310
(c) BIOL 2230
(d) A half-course FCE
Third Year:
(a) Chemistry 3131, 3231, 3251, <b>3271</b> , 3371, 3451, <b>3aaa</b>
(b) <b>Physics 3511</b>
(c) One FCE elective
Fourth Year:
(a) Chemistry 4aaa, 4bbb, 4ccc, 4ddd, 4515
(b) A half-course FCE in Chemistry. See Note 1
(c) Two FCE electives.
Note 1. One-half FCE chosen from: Chemistry 4211, 4311, 4516, 3711, 4710
(The following courses have all been proposed:
CHEM 3aaa – Genes and Genomics course submitted as part of 2013-SCI-2997

CHEM 4aaa – Principles of Medicinal Chemistry course submitted as part of 2013-SCI-2997
CHEM 4ccc – Molecular Imaging course submitted as part of 2013-SCI-2997
CHEM 4bbb – Protein Biochemistry course submitted as part of 2013-SCI-2997
CEM 4ddd – Carbohydrate Chemistry course submitted as part of 2013-SCI-2997)
Budgetary Considerations
Student Enrolment
Student Enrolment Other Units

Student Enrolment Other Units

Additional Resources

Teaching Loads

TeachingSupport Services

Outside Support

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