



Lakehead University
Faculty of Science and Environmental Studies

REQUEST REPORT

Request Tracking Number: 2013-SCI-2717
Request Title: Chemistry Changes

Request Effective Date: F-W 2014-15
Request Status: In Workflow
Request can't be split

Request Contents

Type	Title
1. New Course	Introduction to Medical Imaging
2. New Course	MRI Physics and Medical Applications
3. New Course	Medical Imaging
4. New Course	MRI Physics and Medical Applications

Request History

Workflow Step	Workflow Action	User	Change Made	Comments	Date
Initiator	Approved	Christine Gottardo	No	Submitted to workflow	10/24/2013
Dean and Faculty Council Review Stage	Approved	Christina Maenpaa	No	These new course proposals were approved at Faculty council on October 15, 2013. Dr. Dean has approved them.	10/25/2013

Supporting Documents

File Name	Uploaded By	Upload Date	Size
-----------	-------------	-------------	------

Supporting Documents Audit Trail

File Name	User	Date	Action
-----------	------	------	--------

Notes

Printed: 10/28/2013

Date	User	Note
------	------	------

1.	New Course	4xxx - Introduction to Medical Imaging
----	------------	--

Justification

Conversion of existing special topics course to calendared course.

Course Details

4xxx - Introduction to Medical Imaging

Start Term: F-W 2014-15

End Term: No Specified End Date

<u>Course Details</u>
Code 4xxx
Title Introduction to Medical Imaging
Description This course will cover the basics and medical applications of various medical imaging modalities including magnetic resonance imaging, ultrasound, X-ray, computed tomography, positron emission tomography and single photon emission computed tomography.
End Term No Specified End Date
Institution Lakehead University
Faculty Faculty of Science and Environmental Studies
CreditWeight 0.5
Rationale This course is currently taught as a special topics course and the Department would like it to be converted to a fully calendared course.
Requiredor Elective Elective
Cross List
Offering 3-0; or 3-0
Prerequisites 6.0 Completed FCE in Biology, Chemistry and/or Physics including CHEM 1110 and 1130 and 1.0 FCE in Physics

Corequisites
Notes
SpecialTopicDropdown
GradeSchemePF
EffectonEnrolmentINIT 5-10 students
EffectonEnrolmentOTHER Potentially taken by senior undergraduate students in Biology and Physics.
AdditionalTeachingSpace No additional resources are being requested.
EffectonTeachingLoads Currently taught as part of load under special topics designation.
EffectonServices The Department does not need any additional support services to offer the course.
DirectinKindSupport The Department is not requesting any outside support to present the course.

2.	New Course	4yyy - MRI Physics and Medical Applications
----	------------	---

Justification
Conversion of existing special topics course to calendared course.

Course Details

4yyy - MRI Physics and Medical Applications
Start Term: F-W 2014-15
End Term: No Specified End Date

<u>Course Details</u>
Code 4yyy
Title MRI Physics and Medical Applications
Description This course will cover the physics and physical chemistry of nuclear magnetic resonance, signal acquisition, image formation, image artifacts and image contrast. Advanced medical applications may include the lungs, the heart, the musculoskeletal system and functional MRI of the brain.
End Term No Specified End Date
Institution Lakehead University
Faculty Faculty of Science and Environmental Studies
CreditWeight 0.5
Rationale This course is currently offered as a Special topics course and the Department would like to have it converted to a calendared course.
Requiredor Elective Elective
Cross List
Offering 3-0; or 3-0
Prerequisites 6.0 FCE completed in Biology, Chemistry and / or Physics including CHEM 1110 and CHEM 1130 and 1.0 FCE in Physics

Corequisites
Notes
SpecialTopicDropdown
GradeSchemePF
EffectonEnrolmentINIT 5-10
EffectonEnrolmentOTHER Course may be taken by Biology and Physics majors
AdditionalTeachingSpace No additional resource are being requested from the Department
EffectonTeachingLoads This course is already offered as part of load as a Special Topics course.
EffectonServices The Department will not be requesting any support services from the university.
DirectinKindSupport The Department will not be requiring any outside support for this course.

3.	New Course	5xxx - Medical Imaging
----	------------	------------------------

Justification
Conversion of existing special topics course to calendared course.

Course Details

5xxx - Medical Imaging
Start Term: F-W 2013-14
End Term: No Specified End Date

<u>Course Details</u>
Code 5xxx
Title Medical Imaging
Description This course will cover the basics and medical applications of various medical imaging modalities including magnetic resonance imaging, ultrasound, X-ray, computed tomography, positron emission tomography and single emission computed tomography.
End Term No Specified End Date
Institution Lakehead University
Faculty Faculty of Science and Environmental Studies
CreditWeight 0.5
Rationale This course is currently offered as a special topics course and converting it to a fully calendared course should result in higher, more stable enrollments.
Requiredor Elective Elective
Cross List
Offering 3-0; or 3-0
Prerequisites

Corequisites
Notes This course may not be taken for credit if CHEM 4xxx: Introduction to Medical Imaging has been completed
SpecialTopicDropdown
GradeSchemePF
EffectonEnrolmentINIT 5-10
EffectonEnrolmentOTHER Students in the MSc in Physics and Biology may take this course and students in the PhD Chemistry and Material Science may also take this course.
AdditionalTeachingSpace There are no additional resources being requested for this course.
EffectonTeachingLoads This course is currently offered as a special topics course as part of load for a faculty member.
EffectonServices The Department is not requesting any new support services for this course.
DirectinkindSupport The Department is not requesting any outside support for this course.

4.	New Course	5yyy - MRI Physics and Medical Applications
----	------------	---

Justification
Conversion of existing special topics course to calendared course.

Course Details

5yyy - MRI Physics and Medical Applications
Start Term: F-W 2014-15
End Term: No Specified End Date

<u>Course Details</u>
Code 5yyy
Title MRI Physics and Medical Applications
Description This course will cover the physics and physical chemistry of nuclear magnetic image resonance, signal acquisition, image formation, image artifacts and image contrast. Advanced medical applications may include the lungs, the heart, the musculoskeletal system and functional MRI of the brain.
End Term No Specified End Date
Institution Lakehead University
Faculty Faculty of Science and Environmental Studies
CreditWeight 0.5
Rationale This course is currently offered as a special topics course and the Department believes there will be higher enrollments as a specifically calendared course.
Requiredor Elective Elective
Cross List
Offering 3-0; or 3-0
Prerequisites

Corequisites
Notes
SpecialTopicDropdown
GradeSchemePF
EffectonEnrolmentINIT 5- 10 students
EffectonEnrolmentOTHER Students in the MSc in Biology and MSc in Physics may take the course as well as students in the PhD CHMS
AdditionalTeachingSpace The Department will not be requesting additional resources for this course.
EffectonTeachingLoads This course is currently offered as a Special Topics course as part of load.
EffectonServices The Department is not requesting any additional support services for this course.
DirectinkindSupport The Department is not requesting outside support for this course.