FACULTY OF SCIENCE ACADEMIC COMMITTEE

Report to Faculty of Science Meeting of 21 October 2014

The Academic Committee approved the following on Tuesday, 23 September 2014 :

SECTION A: New Courses

1)	Redpath Museum		
	REDM 511	Advanced Museum-Based Science 3 credits	AC-14-1
2)	Medical Physics		
	MDPH 396	Undergraduate Research Project 3 credits	AC-14-3

SECTION B: (For Information)

1)	Computer Science - Cotutelle Program (Ph.D. Program)	AC-14-4
2)	& R X U V H V R Q ' H D Q ¶ V Undergraduate Research List (DMURL)	AC-14-2
3)	B.Sc. Global Designation	AC-14-5

New Course

Proposal Reference Number : 8959
PRN Alias : 14-15#182
Version No : 1
Submitted By : Ms Marie La Ricca

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	New Data
Program Affected?	N
Program Change Form Submitted?	
Subject/Course/Term	REDM 511 • one term
Credit Weight or CEU's	3 credits
Course Activities	<table><tr><th>Schedule Type</th><th>Hours per week</th></tr><tr><td>A - Lecture</td><td>2</td></tr><tr><td>M - Seminar</td><td>1</td></tr></table>Total Hours per Week : 3 Total Number of Weeks : 13
Course Title	<table><tr><td>Official Course Title :</td><td>Advanced Museum-Based Science</td></tr><tr><td>Course Title in Calendar :</td><td>Advanced Museum-Based Science</td></tr></table>
Rationale	The course integrates t

	literature in museum-based science and the major issues challenging the field. Course components will include the weekly Redpath seminar series, and also a 2-hour weekly lecture, presentation, and discussion session.
Teaching Dept.	0054 : Redpath Museum
Administering Faculty/Unit	SC : Faculty of Science
Prerequisites	Evolution (Biol 304), Science and Museums (REDM 400) and permission from instructor. Web Registration Blocked? : N
Corequisites	
Restrictions	
Supplementary Calendar Info	
Additional Course Charges	

Advanced Museum-Based Science: Testing Adaptive Hypotheses
REDM 511 - Course Syllabus

Instructor:
Rowan D H Barrett (Course Coordinator)
rowan.barrett@mcgill.ca
Office: Redpath 303A; Phone: 398-4086

Workload:
3 credits: 1-hr seminar and 2-hr lecture, presentation, and discussion

Class time and room nuCiTc-T5 0Tc0Tj0-113TD-0Tc[Readin59)]TJT4 1 Tf 0TD-0Tc( )Tj-0 -113TD0Tc-0Tc[selected re)55(e
lecture, presentation, and discussion session.

Objectives:
This course is designed to allow senior undergraduate and graduate students to have an advanced understanding of the role of adaptation in the evolutionary process, and teach them how to distinguish between adaptive and non-adaptive explanations of biological phenomena.

Evaluation:
Grades will be based on oral presentations (25%) and leading of discussion sessions (10%), a research project (35%), weekly assignments (20%), and participation in class discussions (10%).

Student presentations: Each week, one student will select a recent research paper that is loosely

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aligned with the paper assigned for reading that week (in consultation with the instructor). Both papers will be distributed to the class for reading. Following a 30 minute lecture by the instructor, the student will give a 1 hour seminar based on the papers, and will guide the related discussion (with help from the instructor). Evaluation of the seminar will be based on clarity, sufficient background information, appropriate description and understanding of quantitative methods and results, and sufficient explanation of the significance of the work. Evaluation of the leading of discussion sessions will be based on general knowledgeability about the topic and the quality of prepared discussion points. The readings for the week represent an entry point to the topic but should not be the only sources used to address it.

Geralda Bacaj, Miss

From: Geralda Bacaj, Miss
Sent: Friday, September 19, 2014 3:31 PM
To: Geralda Bacaj, Miss
Subject: RE:

Original Message
From: Marie LaRicca
Sent: September 16 14 4:02 PM
To: Josie D'Amico
Subject:

Josie
We asked the following departments for consultation:
biology

Administrative Officer

McGill University
514 398 4086 ext. 3188
514 398 3185 fax
www.mcgill.ca/redpath

Josie D'Amico

From: Michel F. Lapointe, Prof.
Sent: September-09-14 2:25 PM
To: Marie LaRicca
Subject: RE: REDM 511 from Redpath Museum.

Josie D'Amico

From: George McCourt
Sent: September-10-14 8:21 PM
To: Marie LaRicca
Subject: RE:

Geralda Bacaj, Miss

From:

Geralda Bacaj, Miss

From: Geralda Bacaj, Miss
Sent:

Original Message
From: James Savelle, Prof.
Sent: Monday, September 29, 2014 10:29 AM
To: Connie Di Giuseppe; Marie LaRicca
Cc: Rowan Barrett
Subject: RE: Feedback Request RE: Course Proposal REDM 511

Dear Marie;

The course looks to be very interesting, and there is certainly no overlap with anthropology/archaeology.

I assume this is what the consultation request is about?

Regards,
James Savelle

Original Message
From: Connie Di Giuseppe
Sent: Monday, September 29, 2014 8:41 AM
To: Marie LaRicca

Cc: Rowan Barrett; James Savelle, Prof.
Subject: Feedback Request RE: Course Proposal REDM 511

Dear Marie,
511M a r i e ,

Enclosed is a course proposal REDM 511 from

New Course

Proposal Reference Number : 8893
PRN Alias : 14-15#116
Version No : 3
Submitted By : Miss Geralda Bacaj
Edited By : Dr Jan Peter Frans Seuntjens

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	New Data
Program Affected?	N
Program Change Form Submitted?	
Subject/Course/Term	MDPH 396 • one term
Credit Weight or CEU's	3 credits
Course Activities	Schedule Type: PW - Project; Hours per week: 9 Total Hours per Week : 9 Total Number of Weeks : 13
Course Title	Official Course Title : Undergraduate Research Project Course Title in Calendar : Undergraduate Research Project
Rationale	This new course coordinated by the Medical Physics Unit is an undergraduate research project course. This course will provide B.Sc. students with research opportunity to work with Medical Physics researchers on a broad range of projects. It will expand the current options available to students and thus further enhance the interdisciplinary nature of the undergraduate program. The course also matches the curriculum goals of the Medical Physics Research Training Network (MPRTN), an NSERC-funded CREATE program in medical physics research training (mprtn.com). This course will be added to the roster of 396 series of Undergraduate Research Projects Courses currently available to Science students (www.mcgill.ca/science/ours/396).
Responsible Instructor	
Course Description	Independent research project with a final written report and an oral presentation.
Teaching Dept.	0224 : Medical Physics Unit
Administering Faculty/Unit	YI : Medicine (Non-Tr)

Prerequisites	Completion of at least one undergraduate term with CGPA of 3.0 Web Registration Blocked? : N
Corequisites	
Restrictions	This course cannot be taken under the S/U option. Students cannot be supervised by the same instructor for two 396 Science courses. Open to students in programs offered by the Faculty of Science. Since this course takes place within a clinical department and may require access to confidential data, the proposed research project needs departmental approval and may need research ethics board approval.
Supplementary Calendar Info	
Additional Course Charges	
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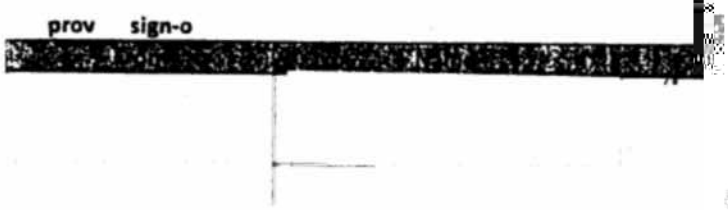
2								Submitted to Department Chair for approval Edited by: Jan Peter Frans Seuntjens on: Aug 1 2014
1								Submitted to Department Chair for approval Created on: Jul 31 2014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No application is necessary for students who have taken courses from the approved list; all B.Sc. and B.A. & Sc. graduating students' records are considered by the Office for Undergraduate Research in Science.

In exceptional circumstances, if students have taken a science research course *not* already on the approved list, and wish for this course to be counted toward the Dean's Multidisciplinary Undergraduate Research List, they must apply. A qualifying course involves a science research project as its primary focus, culminating in a substantive written report. **Ineligible** courses include: reading courses; BASC 396 and BASC 449; and courses offered by the Faculty of Arts. For information on how to apply, students should contact the Office for Undergraduate Research in Science at least 4 months prior to graduation (e.g., February 1, for June graduation; July 1, for November graduation; August 1, for February graduation).

What is the list of approved research-based courses? How was it created and revised?

In 2005, members of the academic committee were asked to propose courses from their units which should be on this list. All courses involve a significant research component and a final written report or thesis. Reading courses were excluded. The list was reviewed and approved at the Academic Committee meeting of December 13, 2005. Since 2005, courses have been added by OURS in consultation with the Associate Dean (Academic), reflecting new course offerings (including three such courses added in 2012-13). The list was also reviewed with the Academic Committee in September 2009, September 2011, September 2012, and September 2013. The current list is given below.

Additions or modifications?

For consideration:

GEOG 460 (Research in Sustainability). Requested by a student. Please see Annex 1. Are there any other courses that should be added to this list, as a result of courses created or modified? Or deletions?

Recent changes, for reference:

EPSC 470: Added 2014-01
GEOG 489: Added 2014-01
PHAR 396: Added 2014-09
PHAR 598: Added 2014-01

Note that future 396 courses (e.g. possible Medical Physics 396) will be added to this list.

About this list:

- In the event of *course name changes* since inception, this is noted in the comments field. *Some courses have been removed from this list* at the recommendation of the Associate Dean (Academic). They are listed in a separate table below. They have not been offered for several years, or they are currently offered as reading courses but have not been offered as research courses in several years.

Multi-semester courses (suffix D1/D2, N1/N2) are denoted by “Span course” in the comments field.

Independent studies: research or reading? Courses in which some students are given reading courses and other students are given research projects (i.e., EPSC 482). When OURS reviews dossiers of candidates for graduation to determine their eligibility for DMURL, departmental validation is required to determine whether the course was taken as a reading project or a research project. *These courses are labeled with an asterisk (*) in the table below.* (GEOG 490 **was**

Annex A - GEOG 460 Research in Sustainability (3 credits)

Here is the course description from http://www.mcgill.ca/study/2014-2015/courses/GEOG-460

Overview

Geography: Through engaging in real-world sustainability challenges through hands-on research, learn to critically analyze problems that arise at the interface of multiple disciplines including the scientific-technological, socio-economic, political-institutional, ethical, and human behavioural. Develop an understanding of the leverages and road blocks in achieving a sustainability transition.

Terms: Fall 2014

Instructors: Brian Robinson (Fall)

Fall
Prerequisite: GEOG 360tl7T-0 Tc( )Tjyaa0t93514U1a-.4(ty triP,cPleanalsealyzt.15ed for001dew[ed 153 T

Note:

1. Introduction – What is the B.Sc. Global Designation?

2. Eligibility

Exchange:

"Global" courses offered within Science or from other faculties:

2.3 Other Requirements

Appendix 1: Suggested Pre-Approved Field Courses

Field Study Semesters:

Courses:

Appendix 3: Draft Application Form for B.Sc. Global Designation