

FACULTY OF SCIENCE  
MEETING OF FACULTY  
Tuesday, October 21, 2014  
3:00 p.m.  
Leacock Council Room - L232

A G E N D A

Please note that before the meeting, new professors, recently tenured professors and recently promoted full professors will be introduced to the Faculty.

1. Adoption of Agenda
2. Resolution on the Death of Emeritus Professor Joachim (Jim) Lambek, Department of Mathematics & Statistics – Presented by Prof. Henri Darmon
3. Seating of Student Members S-14-1 On Web
4. Candidates for Degrees  
Director (Advising Services) Nicole Allard

**FACULTY OF SCIENCE  
Meeting of Faculty  
Thursday, May 22, 2014  
Leacock Council Room – L232**

**ATTENDANCE:** As recorded in the Faculty Appendix Book.

**902.5**

The Committee provided the following quotes from letters of support to highlight Ms. Domingues's contributions:

A PhD student noted that, "Paula is often the first person a student goes to whenever a problem arises. She not only does excellent work, but she does so with a smile and a type of concern that makes a student feel like she is truly looking out for you."

A faculty member noted that, "she juggles countless essential daily administrative tasks with grace and efficiency, all the while maintaining a human touch that puts the department at ease."

The committee agreed with the referee who wrote: "There would be no better way for the university to recognize administrative excellence than to award Paula Domingues this honor."

~

**902.6**

On behalf of the Faculty of Science, Dean Grant congratulated Ms. Domingues and presented her with a framed certificate commemorating her receipt of the Faculty of Science Excellence Award (C)

**902.7**

Ms. Domingues said she appreciated the award very much, and thanked Prof. Gyakum, Chair of the Department, Prof. Jaime Palter, Mr. Kevin Bowley, Ph.D. candidate, and Ms. Raffaella Bruno, Administrative Officer.

**b) Leo Yaffe Teaching Award**

**902.8**

Prof. Edith Zorychta, Chair, Leo Yaffe Award/Principal's Prizes Committee, thanked Josie D'Amico and the Committee for all their work in enabling the award.

The members of the Committee were:  
Prof. Eyal Goren, Mathematics & Statistics  
Prof. Richard Koestner, Psychology  
Prof. Martin Lechowicz, Biology  
Prof. Bernhard Lehner, Geography  
Prof. Alvin Shrier, Physiology  
Prof. Denis Thérien, Computer Science  
Prof. Man K. Yau, Atmospheric & Oceanic Sciences

**902.9**

The nominees for 2013-2014 were:  
Prof. Karine Auclair, Chemistry  
Prof. Yogita Chudasama, Psychology  
Prof. David Green, Redpath Museum  
Prof. Carlos Morales, Anatomy & Cell Biology  
Prof. Joelle Pineau, Computer Science  
Prof. Sarah Turner, Geography  
Prof. Tamara Western, Biology

**902.10**

Despite the excellent quality of all the candidates, there had been a clear winner for the current year.



~  
902.12 Unfortunately, Prof. Auclair was unable to attend the meeting.

902.13 Dean Grant thanked Prof. Zorychta for her excellent work over the years on the Leo Yaffe Award/Principal's Prizes Committee. In her absence, he congratulated Prof. Auclair to thunderous applause.

(3) **CANDIDATES FOR DEGREES**

903.1 Director (Advising Services) Nicole Allard thanked everyone involved in preparing the degree lists.

- a) **Bachelor of Arts and Science** **S-13-24**
- b) **Bachelor of Science** **S-13-25**

903.2 Director Allard said that there were 86 graduands for the B.A. & Sc. degree, and 817 for the B.Sc. degree. The corresponding figures for 2013 were 94, and 782.

Director Allard **moved**, seconded by Mr. Barry, that the above degree lists be recommended to the Senate Steering Committee for their respective degrees.

**The motion carried.**

- c) **Diploma in Environment** **S-13-26**
- d) **Diploma in Meteorology** **S-13-27**

903.3 Director Allard said that there were two candidates for Diploma in Environment and one candidate for the Diploma in Meteorology.

Director Allard **moved**, seconded by Prof. Crepeau, that the above diploma lists be recommended to the Senate Steering Committee for their respective diplomas.

Director Allard further **moved**, seconded by Mr. Barry, that the Dean be given discretionary power to make such changes in the degree list as would be necessary to prevent injustice.

(4) **MINUTES OF MARCH 18, 2014**

Prof. Moore **moved**, seconded by Prof. Gyakum, that the Minutes be approved.

**The motion carried.**

(5) **BUSINESS ARISING FROM THE MINUTES**

There was no business arising from the Minutes

(6) **REPORTS OF COMMITTEES (continued)**

- c) **Committee on Student Standing** **S-13-28**

There being no meeting of the Committee on Student Standing, there was no report.

- d) **Scholarships Committee** **S-13-29**

**906.1**

On behalf of Associate Dean Victoria Kaspi, Prof. Tamara Western announced that the Moyse Travelling Scholarship was awarded to **Mr. Aryeh Isaac Feinberg**, First Class Honours in Chemistry with a Minor in Mathematics. She also announced that **Mr. Tristan Labelle**, First Class Honours in Computer Science, had been awarded one of the two Governor General's Silver Medals allocated to McGill. In the past 26 years, Science has received 25 of these medals. The medal will be presented at the Faculty of Science Convocation ceremony on June 4, 2014. Prof. Western drew members' attention to the Scholarships Report.

- Honours in Atmospheric Science
- Major in Atmospheric Science

**AC-13-91**

**AC-13-92**

**906.4** Associate Dean Hendren said that the changes divided the two programs into core required courses and four different streams. She said that this would be a good idea for other departments as well.

Associate Dean Hendren **moved**, seconded by Prof. Gyakum, that the above changes be approved.

**The motion carried.**

**(4) COMPUTER SCIENCE**

**Program Changes:**

- B.Sc. Major in Computer Science

**AC-13-84**

**906.5** Associate Dean Hendren said that the change would now explicitly require students to take at least six credits at the 400-level or above.

Associate Dean Hendren **moved**, seconded by Prof. Crepeau, that the change be approved.

The motion carried.

**(5) PHYSIOLOGY AND PHYSICS**

**Program Changes:**

- Joint Major in Physiology and Physics

**AC-13-86**

**906.6** Associate Dean Hendren said that these were housekeeping changes. However, she mentioned that at 80 credits, the credit count was too high.

Associate Dean Hendren **moved**, seconded by Prof. Grütter, that the changes be approved.

**The motion carried.**

**(6) MATHEMATICS & STATISTICS**

**Program Changes:**

- Ph.D. in Mathematics & Statistics (Thesis)

**AC-13-85**

**906.7** Associate Dean Hendren said that the above changes simply formalized what was already the practice in the program.

Associate Dean Hendren **moved**, seconded by Prof. Hurtubise, that the changes be approved.

The motion carried.

**(7) GEOGRAPHY**

- (i)** Proposal to Allow B.A. & Sc. Students to Take Geography Major Concentrations in BOTH Arts and Science

**AC-13-95**

**906.8** Associate Dean Hendren said that currently B.A. & Sc. students could select either their Arts component or their Science component from Geography, but not both. However, the Major Concentration in Geography (Urban Studies) (Arts component), and the Major Concentration in Geography (Physical Geography) (Science component) actually contain very little overlap. The proposal would allow students to take both Major Concentrations as their Arts and Science components of the B.A. & Sc. She added that the proposal had originally come from the students.

Associate Dean Hendren **moved**, seconded by Prof. Moore, that the changes be approved.

**The motion carried.**

**(ii) GEOG 205 Proposal to Include on List of Approved Freshman Science Courses**

**AC-13-96**

**906.9** Associate Dean Hendren explained that in the Freshman program, students had the option of doing a course from a list of Complementary courses. The proposal would add GEOG 205 to that list. Since GEOG 205 was not a required course for any Geography program, there would be no issue of "double-counting."

**906.10** Associate Dean Hendren **moved**, seconded by Prof. Moore, that GEOG 205 be included on the list of Approved Freshman Science courses.

**906.11** Prof. Mucci said he objected to the proposal because it went against the idea of having ESYS 104 in the list of Approved Freshman Science courses, namely, that ESYS 104 would provide an introduction to material from the Departments of Atmospheric & Oceanic Sciences, Earth & Planetary Sciences, and Geography. He said that there was overlap between ESYS 104 and GEOG 205, and that there had been insufficient consultation on the proposal. He said he would like to table the proposal pending further consultation.

**906.12** In response, Prof. Moore said that there had been consultation, and that Associate Dean Hendren had visited the three Departments concerned, and invited them to individually submit courses for inclusion on the list of Approved Freshman Science courses. Only Geography had taken up that initiative. Earth System Science was not reflective of all of geography, which has a prominent human component. Inclusion of GEOG 205 in the Freshman Program would allow exposure of students to multiple aspects of geography.

**906.13** Prof. Gyakum pointed out that neither he nor Prof. Mucci had been Chair when the Departments had been invited to submit courses for the Freshman program, and hence were unaware of the issue. He agreed that the inclusion of GEOG 205 went against the spirit of ESYS 104.

**906.14** Prof. Mucci **moved**, seconded by Prof. Paquette, that the proposal be tabled to a future meeting.

**906.15** **The vote to table the above item was:**

10 In favour  
4 Against

**906.16** **The motion to table the above item carried.**





Grütter's multitasking ability that had been on prominent display during his tenure as Associate Dean.

**907.9** Prof. Grütter had been replaced as Associate Dean (RAGE) by Prof. Victoria Kaspi.

**907.10** Dean Grant said that one of the points of pride of being Dean of the Faculty of Science was the large number of extremely able academic administrators in the Faculty. Prominent among these is Associate Dean (Academic) Laurie Hendren, who has been in the job since September 2005. During her tenure, Associate Dean Hendren presided over some memorable accomplishments including revamping the Freshman Program, and the introduction of the B.Sc. (Liberal) and the B.Sc./M.Sc. Programs, as well as the



Finally, and appropriately, Senator Wolfson reported briefly on the actions of the Committee to Enhance Senate. Food, booze and toga wearing during Senate would certainly enhance things, though just wishful thinking, and a fuller report will be presented at the next Senate.

**- Senate Meeting of April 23, 2014 - Prof. David Zuroff**

1. Principal Fortier's remarks

a. Commenting very shortly after the provincial election - implications of the Liberal victory are unknown yet presumably favorable. Several prominent liberals, including the new Premier, have ties of some kind to McGill.

2. Next, during question period, there was a question about research ethics and policies when a McGill researcher collaborates with external partners, e.g., industrial partners

a. Vice Principal Goldstein says that a working group has been formed, that it will report before end of 2015 academic year, and there will be a policy document about collaborations and partnerships with entities outside McGill.

3. University staffing report from Provost Masi & VP Di Grappa.

a. Tenure track staff essentially constant over last year, slight increase over 5 years.

b. Admin and support staff increased by 8% over last 5 years, although the increase have markedly slowed over last 2 years. Administrative units have grown by 13%, but that has now been slowed or reversed.

c. Ratio of support staff to faculty has declined slightly, and will continue to do so because of voluntary retirements.

4. McGill Budget for 2015 - Masi's presentation.

a. Many uncertainties, but we are on track to meet the proposed deficit target of 10.4 million this year.

b. Very frank recognition that academic staff are in bottom 3 or 4 of comparator universities for pay - addressing this gap is the main priority for next year's budget

c. Other priorities include: providing matching funds as needed for grants; also increased student assistance

d. Proposing a 7 million deficit for next year. That may qualify us for some additional funding from the government.

e. Rate of tenure track recruitment will be slow - may be close to replacement

f. Modest growth in enrolment, capacity permitting.

g. Tricouncil research dollars are increasing, but indirect costs paid to the university are completely flat.

h. With the recovery of the stock market, the endowment is back over a billion.

5. Comments and questions about budget

a. McGill would get 70 million a year more in tuition if in Ontario.

b. Excellent comment by Senator Dudek defending seeking top people for faculty positions- not just a chase for prestige or a weighting of research over teaching.

c. RVH? Fortier & Di Grappa underline that taking over the RVH and converting it for McGill's use would be very, very expensive requiring multiple partners. Current planning is extremely preliminary and if there is a real possibility of going ahead, it will be brought to Senate. Financial, legal, zoning, renovation, on-going operating expenses would have to be agreed to. They promise that expansion into the RVH will not be allowed to create a problem for the university long-term.

d. Looking at professional masters and 1-year programs as ways to make more money. New masters programs may be brought in.

6. Report of Academic Policy Committee

a. Revised course evaluation policy. Faculty members can opt out rather than having to opt in. Evaluations to be kept on file for 5 years rather than 3 years. Each department can opt out of allowing students to extend evaluation until after final exams, and that opt out is permanent.

b. There is no evidence of gender bias in grading at McGill, at UG or grad level.

7. Report of Senate Nominating Committee.

a. Search committee for new Provost has been formed. Senate representatives will include Bruce Lennox from Science

b. There will be public consultations about the role of the Provost. The committee will also seek written contributions.

c. Masi stated that he is NOT seeking another term in office.

8. Report on Vision 2020 - sustainability strategy for McGill

a. Very well received by the Senate

b. Money for research and projects will be available - jointly contributed to by students and administration. 840K/year

c. Some discussion of "holistic" sustainability in which equity and social justice issues are linked to traditional environmental issues. Some criticism that there wasn't more of that in the report.

9. Progress report on Quartier de L'Innovation by VP Goldstein

a. Over 20 concrete initiatives with active involvement of eight McGill Faculties, over 34 professors, approximately 30 students, as well as over 700 participants in its varied projects, initiatives and events.

**909.1** Dean Grant mentioned that he would like to encourage members of the Faculty to express their opinions in writing to the Committee charged with searching for a new Provost.

**- Senate Meeting of May 14, 2014 - Prof. Graham Bell**

There will be no written Report on the Senate Meeting of May 14, 2014.

**909.1** In reply to Prof. Dudek, Director, School of Computer Science, who had expressed concern that the recent name change from Library and Information Studies to School of Information Studies, and mandate modification, risked confusion with the School of Computer Science, Dean Grant said that the Academic Committee should pay attention to issues such as these.

**909.2** Dean Grant said that the Board of Governors was finalizing the Senate representation on the Committee to select a new Dean of Science. When that was accomplished, Josie D'Amico would send out a Call for Nominations for members of the Faculty to serve on the Committee. He asked members to think about people who would make a good Dean of Science, and about good people to serve on the Committee.

**909.3** Dean Grant said that as soon as he received notice on tenure decisions, he would inform chairs/directors who would then inform members of their department.

**(10) MEMBERS' QUESTION PERIOD**

There were no members' questions.

**(11) OTHER BUSINESS**

There being no further business, the meeting adjourned at 4:20 p.m.

**FACULTY OF SCIENCE  
NOMINATING COMMITTEE REPORT  
2014-2015**

**(1) SCIENCE NOMINATING COMMITTEE - For Information**

**Chair:** Dean Martin Grant

**Convenor:** Prof. Peter Grütter (Physics) [August 2017]  
Prof. Graham Bell (Biology) [August 2015]  
Prof. Masad Damha (Chemistry) [August 2017]  
Prof. Gregory Dudek (Computer Science) [August 2016]  
Prof. John Gyakum (Atmospheric & Oceanic Sciences) [August 2017]  
Prof. David Harpp (Chemistry) [August 2015]  
Prof. Jacques Hurtubise (Mathematics & Statistics) [August 2016]  
Prof. Timothy Moore (Geography) [August 2016]  
Prof. Alfonso Mucci (Earth & Planetary Sciences) [August 2017]

**(2) SCIENCE CHAIRS' COUNCIL - For Information**

**Chair:** Dean Martin Grant

Associate Dean (Academic) Tamara Western [September 2014 – May 2019]  
Associate Dean (Research & Graduate Education) Victoria Kaspi [June 2013 – May 2015]  
Director (Advising Services) Nicole Allard [June 2007 – ]  
Prof. John Gyakum ((Atmospheric & Oceanic Sciences) [September 2013 – August 2016]  
Prof. Graham Bell (Biology) [June 2011 – May 2016]  
Prof. Masad Damha (Chemistry) [June 2013 – May 2018]  
Prof. Gregory Dudek (School of Computer Science) [September 2013 – August 2016]  
Prof. Alfonso Mucci (Earth & Planetary Sciences) [June 2013 – May 2016]  
Prof. Nigel Roulet (Geography) [September 2014 – August 2019]  
Prof. Jacques Hurtubise (Mathematics & Statistics) [January 2009 – May 2015]  
Prof. Nancy Ross (McGill School of Environment) [September 2013 –August 2018]  
(Replaced by Prof. Sylvie de Blois until December 2014)  
Prof. Peter Grütter (Physics) [June 2013 – May 2018]  
Prof. John Lydon (Psychology) [June 2014 – May 2017]  
Prof. David Green (Redpath Museum) [June 2010 – May 2015]

**(3) TENURE COMMITTEE - For Information**

**Chair:** Dean Martin Grant

**Alternate Chair:** Peter Yau (Atmospheric & Oceanic Sciences) [2015]  
Prof. Scott Bohle (Chemistry) [2015]  
Prof. Mark Goldberg (Medicine, Medicine)  
Prof. Frank Mucciardi (Mining, Engineering)  
Prof. Marina Klein (Medicine, Medicine)

#### **(4) COMMITTEE ON STUDENT STANDING – For approval**

**Chair:** Prof. Eric Galbraith (Earth & Planetary Sciences)  
 Prof. Andreas Zuend (Atmospheric & Oceanic Sciences)  
 Prof. Rodrigo Reyes-Lamothe (Biology)  
 Prof. Martin Robillard (Computer Science)  
 Prof. Benjamin Forest (Geography)  
 Prof. Jean-Christophe Nave (Mathematics & Statistics)  
 Prof. William Coish (Physics)  
 Prof. Rhonda Amsel (Psychology)  
 Prof. Hans Larsson (Redpath)

#### **Four Student Representatives:**

Mary Smith (Biochemistry)  
 Halyea Nisbet (Earth & Planetary Sciences)  
 Charbel El-Kefraoui (Neuroscience)  
 Ziyaan Harji (Psychology)

#### **(5) ACADEMIC COMMITTEE – For approval**

**Chair:** Dean Martin Grant  
**Vice-Chair:** Associate Dean (Academic) Tamara Western  
 Director (Academic Advisors) Nicole Allard  
 Prof. Craig Mandato (Anatomy & Cell Biology)  
 Prof. Daniel Kirshbaum (Atmospheric & Oceanic Sciences)  
 Prof. Julie St-Pierre (Biochemistry)  
 Prof. Thomas Bureau (Biology)  
 Prof. Amy Szuchmacher Blum (Chemistry)  
 Prof. Clark Verbrugge (School of Computer Science)  
 Prof. Anthony Williams-Jones (Earth & Planetary Sciences)  
 Prof. Michel Lapointe (Geography)  
 Prof. Vojkan Jaksic (Mathematics & Statistics)  
 Ms. Kathy Roulet (McGill School of Environment)  
 Prof. Greg Marczynski (Microbiology & Immunology)  
 Prof. Barbara Hales (Pharmacology)  
 Prof. Guy Moore (Physics)  
 Prof. Ana Nyzhnyk (Physiology)  
 Prof. Blaine Ditto (Psychology)  
 Ms. Sara Holder (Schulich Library of Science & Engineering)  
**Seven Undergraduate Student Representatives:**  
 Ms. Rose Rutherford-Stone (Earth and Planetary Sciences)  
 Ms. Laura Lyon (Geography)  
 Mr. Kai Hong (Mathematics)  
 Ms. Jessica Quaggin-Smith (Microbiology & Immunology)  
 Mr. Jeremy Goh (Pharmacology)  
 Ms. Vivian Ku (Pharmacology)  
 Mr. Simon Bilodeau (Physics)



**One Graduate Student: TBA**

**(6) SCHOLARSHIPS COMMITTEE – For approval**

**Chair:** Associate Dean (Research & Graduate Education) Victoria Kaspi  
 Prof. Craig Mandato (Anatomy & Cell Biology)  
 Prof. Yi Huang (Atmospheric & Oceanic Sciences)  
 Prof. José Teodoro (Biochemistry)  
 Prof. Melania Cristescu (Biology)  
 Prof. Mark Andrews (Chemistry)  
 Prof. Luc Devroye (School of Computer Science)  
 Prof. Olivia Jensen (Earth & Planetary Sciences)  
 Prof. Dani Wise (Mathematics & Statistics)  
 Prof. Brian Leung (McGill School of Environment)  
 Prof. Greg Matlashewski (Microbiology & Immunology)  
 Prof. Kenneth Ragan (Physics)  
 Prof. Ana Nyzhnyk (Physiology)  
 Prof. Heungsun Hwang (Psychology)

**(7) LEO YAFFE & PRINCIPAL'S PRIZES COMMITTEE – For approval**

**Chair:** Prof. Edith Zorychta [August 2015]  
 Prof. Gary Brouhard (Biology) [August 2015]  
 Prof. Dmitrii Perepichka (Chemistry) [August 2015]  
 Prof. Paul Wiseman (Chemistry & Physics) [August 2015]  
 Prof. Denis Thérien (Computer Science) [August 2015]  
 Prof. Boswell Wing (Earth & Planetary Sciences) [August 2017]  
 Prof. Bernhard Lehner (Geography) [August 2016]  
 Prof. Eyal Goren (Mathematics & Statistics) [August 2016]  
 Prof. Alvin Shrier (Physiology) [August 2016]  
 Prof. Richard Koestner (Psychology) [August 2016]

**Two Student Representatives:**

Mr. Mae Yin (Biochemistry)  
 Mr. Simon Bilodeau (Physics)

**Plus Six Alternates Nominated by SUS**

Christine Audi (Anatomy and Cell Biology)  
 Carine Zhang (Biology)  
 Marvin Wu (Biochemistry)  
 Emily Boytinck (Environment)  
 Victoria Yang (Physiology)  
 Osama Haque (Pharmacology)

**(8) COUNCIL OF GRADUATE AND POSTDOCTORAL STUDIES – For approval**

Prof. Sébastien Breau (Geography) [May 2017]

Prof. Gregory Brown (Biology) [May 2015]

Prof. David Wolfson (Mathematics & Statistics) [May 2015]

**Note: Only Science Membership is for Approval:**

**(9) B.A. & Sc. PROGRAM ADMINISTRATION COMMITTEE**

**Chair:** Associate Dean (Academic) Gillian Lane-Mercier [August 2015]

**Science Members:**

Associate Dean (Academic) Tamara Western [August 2019]

Prof. Hans Larsson (Redpath) [August 2017]

Prof. Brian Robinson (Geography) [August 2017]



# Neurse

Proposal Reference Number : 8959  
 PRN Alias : 14-15#182  
 Version No : 3  
 Submitted By : Ms Marie La Ricca  
 Edited By : Ms Marie La Ricca

[Display Printable PDF](#)

	New Data	
Program Affected?	N	
Program Change Form Submitted?		
Subject/Course/Term	REDM 511 <ul style="list-style-type: none"> <li>• one term</li> </ul>	
Credit Weight or CEU's	3 credits	
Course Activities	Schedule Type	Hours per week
	A - Lecture	2
	M - Seminar	1
	Total Hours per Week : 3	
	Total Number of Weeks : 13	
Course Title	Official Course Title :	Advanced Museum-Based Science
	Course Title in Calendar :	Advanced Museum-Based Science
Rationale	<p>The course integrates the long-standing Redpath seminar series with in-depth discussion and student presentations to allow senior undergraduate and graduate students to develop an advanced understanding of Museum-based science. The Redpath Museum does not currently offer an advanced level seminar course, and together with upper level lab-based courses REDM 400 (Science and Museums) and REDM 500 (Comparative Methods in Natural History). REDM 511 will help the Museum foster a broader knowledge of the natural world and provide comprehensive</p>	

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	non-adaptive explanations of natural history phenomena.
Responsible Instructor	
Course Description	The course will allow senior undergraduates and graduate students to become intimately acquainted with key primary 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	Science and Museums (REDM 400) and/or permission of instructor. Web Registration Blocked? : N
Corequisites	
Restrictions	
Supplementary Calendar Info	
Additional Course Charges	
Campus	Downtown
Projected Enrollment	12
Requires Resources Not Currently Available	N
Explanation for Required Resources	
Required Text/Resources Sent To Library?	
Library Consulted About Availability of Resources?	
Consultation Reports Attached?	
Effective Term of Implementation	201501
File Attachments	<ul style="list-style-type: none"> <li>• REDM 511 syllabus.docx <a href="#">View</a></li> </ul>
To be completed by the Faculty	
For Continuing Studies Use	



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

Instructor :  
Rowan D H Barrett (Course Coordinator)  
[rowan.barrett@mcgill.ca](mailto: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 0 Tc 0 Tw ( )Tj 0 -1.1377 TD -.0002 Tc [(Readin)5.9(g)]TJ /TT4 1 Tf 3.9401 0 TD -.0  
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

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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, 2014 4:02 PM  
To: Josie D'Amico  
Subject:

Josie  
We asked the following departments for consultation:  
biology

Administrative Officer

McGill University

514 898 4086 ext. 3188

514 898 8185 fax

[www.mcgill.ca/redpath](http://www.mcgill.ca/redpath)

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Josie D'Amico

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

Ms La Ricca

Having inspected the proposed course form, the geography department has no objections and indeed encourages its creation .

Prof. Michel Lapointe  
Chair of Undergraduate Affairs Committee of McGill Geog

-----Original Message-----

From: Marie LaRicca [mailto:marie.laricca@mcgill.ca]  
Sent: Tuesday, September 09, 2014 2:19 PM  
To: LAPOINTE@GEOG.MCGILL.CA  
Cc: Rowan Barrett  
Subject:

Dear Prof. Lapointe,

Enclosed is a course proposal REDM 511 from Redpath Museum. This is being sent to you for course consultation. Could you please send us feedback before September 23rd. The Faculty of Science will be presented this course at this date.

Thank you for your time and your feedback.  
Sincerely

Marie Passalupi La Ricca  
Administrative Officer

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

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Before printing, think about the Environment.  
Avant l'impression, il faut penser à l'Environnement.

Josie D'Amico

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

Hi Marie,

The MSE has no objections to this new course proposal (REDM 511).

Thanks!

George

Senior Faculty Lecturer, McGill School of Environment Associate Director Undergraduate Affairs,  
McGill School of Environment

McGill School of Environment  
Rowles House,  
Macdonald Campus of McGill University  
21, 111 Lakeshore Road,  
Ste-Anne-de-Bellevue, QC, H9X 3V9

Tel: 514-398-7550  
E-mail: [george.mccourt@mcgill.ca](mailto:george.mccourt@mcgill.ca)

-----Original Message-----

From: Marie LaRicca  
Sent: Wednesday, September 10, 2014 9:17 AM  
To: George McCourt  
Cc: Rowan Barrett  
Subject:

Dear Prof. McCourt,  
Enclosed is a course proposal REDM 511 from Redpath Museum. This is being sent to you for course consultation. Could you please send us feedback before September 23rd. The Faculty of Science will be presented this course at this date.

Thank you for your time and your feedback.  
Sincerely

Marie Passalupi La Ricca  
Administrative Officer

McGill University  
514-398-4086 ext. 3188  
514-398-3185 fax

Geralda Bacaj, Miss

---

From:

Geralda Bacaj, Miss

---

From: Geralda Bacaj, Miss  
Sent:

CONFIDENTIAL NOTICE This email may contain information that is privileged and confidential. Please delete immediately if you are not the intended recipient. Ce courriel peut contenir de l'information privilégiée et confidentielle. Nous vous demandons de le détruire immédiatement si vous n'êtes pas le destinataire. Before printing, think about the Environment. Avant l'impression, il faut penser à l'Environnement.

r r Original Message r r r r  
From: James Savelle Prof.  
Sent: Monday, September 29, 2014 10:29 AM  
To: Connie Di Giuseppe Marie La Ricca  
Cc: Rowan Barrett  
Subject: RE: Feedback Request RE: Course Proposal REDM511

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

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



Cc:RowanBarrett; JamesSavelleProf.

Subject:FeedbackRequestRE.CourseProposaREDM511

DearMarie,

511M a r i e ,

Enclosed is a course proposal REDM511 from

# New Course

Proposal Reference Number: 8893

PRN Alias : 14-15#116

Version No : 5

Submitted By : Miss Geralda Bacaj

Edited By : Ms Josie D'Amico

New Data					
Program Affected?	N				
Program Change Form Submitted?					
Subject/Course/Term	MDPH 396 <ul style="list-style-type: none"> <li>one term</li> </ul>				
Credit Weight or CEU's	3 credits				
Course Activities	<table border="1"> <thead> <tr> <th>Schedule Type</th> <th>Hours per week</th> </tr> </thead> <tbody> <tr> <td>P[Tm [(3)-ivities</td> <td></td> </tr> </tbody> </table>	Schedule Type	Hours per week	P[Tm [(3)-ivities	
	Schedule Type	Hours per week			
P[Tm [(3)-ivities					
	<table border="1"> <tbody> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>				

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.

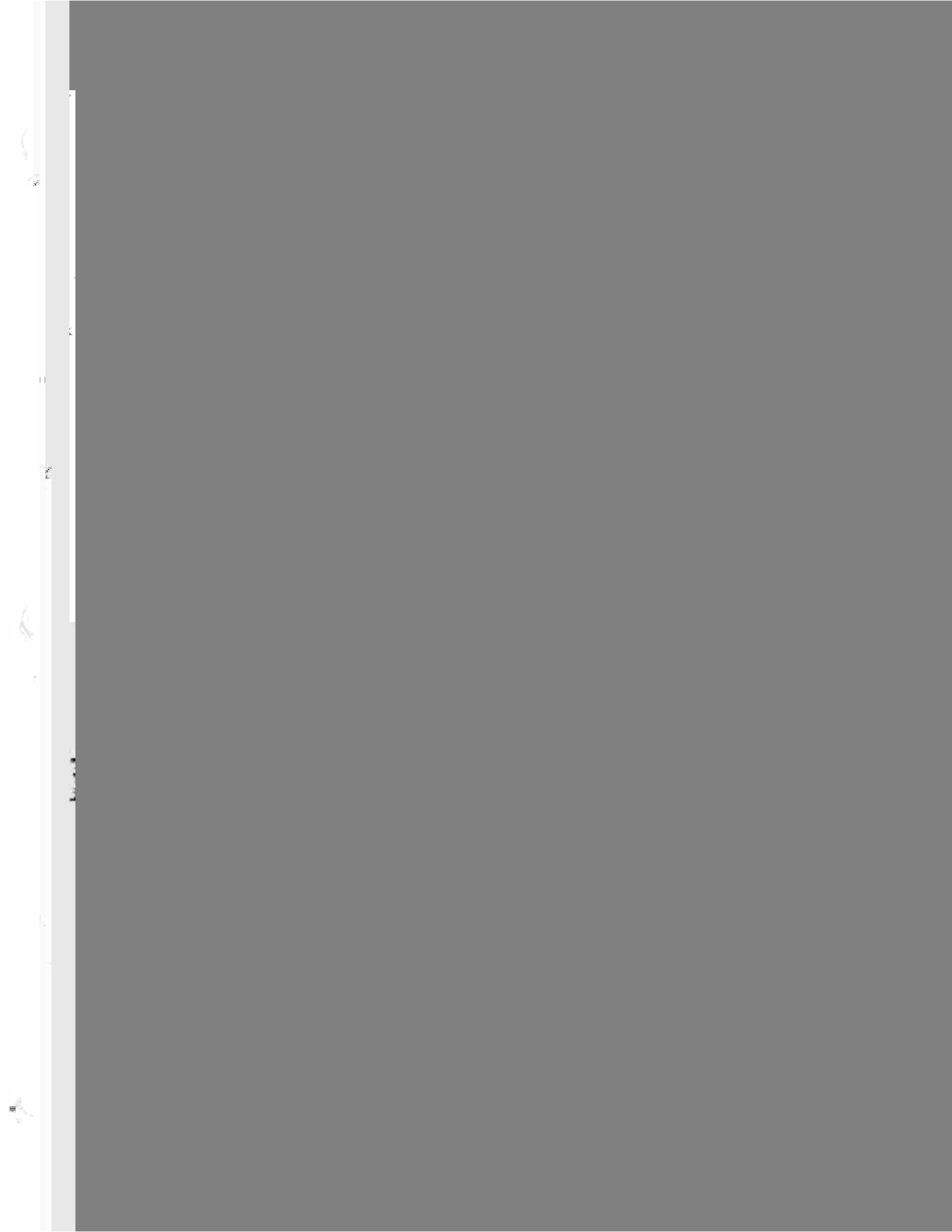
Supplementary Calendar Info	
Additional Course Charges	
Campus	Downtown
Projected Enrollment	5
Requires Resources Not Currently Available	N
Explanation for Required Resources	
Required Text/Resources Sent To Library?	
Library Consulted About Availability of Resources?	
Consultation Reports Attached?	
Effective Term of Implementation	201501
File Attachments	No attachments have been saved yet.
To be completed by the Faculty	
For Continuing Studies Use	

## Approvals Summary

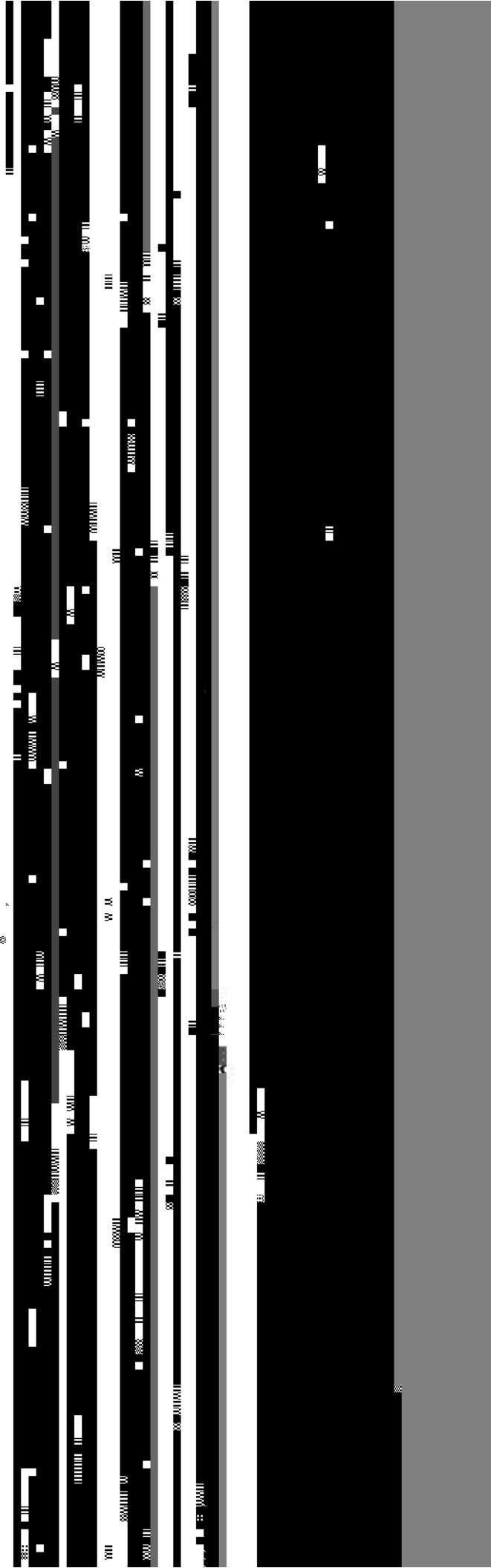
### Show all comments

Version No.	Departmental Curriculum Committee	Departmental Meeting	Departmental Chair	Other Faculty	Curric/Academic Committee	Faculty	SCTP	Version Status
5					Approved David S Ragsdale Meeting Date: Sep 08 2014 Approval Date: Oct 1 2014 <a href="#">View Comments</a>	Approved David S Ragsdale Meeting Date: Sep 08 2014 Approval Date: Oct 1 2014 <a href="#">View Comments</a>		Approved by Faculty Meeting Edited by: Josie D'Amico on: Oct 1 2014
4								Submitted to Department Chair for approval Edited by: Josie D'Amico on: Sep 22 2014
3								Submitted to Department Chair for approval Edited by: Jan Peter Frans

							Seuntjens on: Sep 9 2014
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



prov sign-o







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:

- x GEOG 460 (Research in Sustainability). Requested by a student. Please see Annex 1.
- x 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:

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

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





# B.Sc. Global Designation – Student Information

## Faculty of Science, McGill University

September 23, 2014

*Note:* The B.Sc. Global Designation was approved by the Faculty of Science on December 4, 2012. This document and associated lists of suggested approved courses and draft applications prepared as steps in the implementation process.

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

The Faculty of Science B.Sc. Global Designation is a Bachelor of Science (B.Sc.) students who have gone beyond a typical B.Sc. experience by broadening their horizons through participation in language classes, the performance of independent research and in the “real-world” (global-related study and/or non-McGill study or work experience) in their program.

### 2. Eligibility

To receive the designation of B.Sc. Global at graduation

Exchange: At least one term as an exchange student at a university outside of Montreal (see <http://www.mcgill.ca/students/international/goabroad/exchange>).

“Global” courses offered within Science or from other faculties. At least three credits from a McGill course with a substantial Global component. Such courses must be at the 200-level or above, and may not be a “General Interest” type of course. Courses from both within Science and in other faculties may be used to satisfy this requirement. A list of pre-approved courses is listed on the Global Designation web site [see Appendix 2]. To apply for a course not currently found on the pre-approved list to be added to the list, please contact the Global Designation Coordinator.

### 2.3 Other Requirements

Furthermore, considering all qualifying B.Sc. Global Designation courses on your transcript at graduation time:

## Appendix 1: Suggested Pre-Approved Field Courses

Field Study Semesters:

Canadian Field Studies in Africa (CFSIA)  
 Panama Field Study Semester (PFSS)  
 Barbados Field Study Semester (BFSS)  
 Barbados Interdisciplinary Tropical Studies (BITS)

Courses:

Note: Where applicable, course restrictions are noted in the list of Restricted courses outside the Faculty of Science

BIOL 240 (3) Montegian Flora (at Mont St. Hilaire)  
 BIOL 331 (3) Ecology/Behaviour Field Course (at Mont St. Hilaire)  
 BIOL 334 (3) Applied Tropical Ecology (in Barbados)  
 BIOL 335 (3) Marine Mammals (taught at the Huntsville Marine Science Centre, Bay of Fundy, N.B.)  
 BIOL 432 (3) Limnology  
 BIOL 573 (3) Vertebrate Palaeontology Field Course (in Alberta and/or Saskatchewan)  
 EPSC 231 (3) Field School 1  
 EPSC 331 (3) Field School 2  
 EPSC 341 (3) Field School 3  
 GEOG 495 (3) Field Studies – Physical Geography (in southern Quebec)  
 GEOG 496 (3) Geographical Excursion (in Barbados)  
 GEOG 499 (3) Subarctic Field Studies (in Schefferville)  
 GEOG 555 (3) Ecological Restoration  
 PLNT 358 (3) Flowering Plant Diversity - on Approved list  
 WILD 401 (4) – Fisheries and Wildlife Management - on neither Approved nor Not Approved list  
 WILD 475 (3) Desert Ecology (Arizona, Colorado, Utah) – on neither Approved nor Not Approved list





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

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 360t7l,T-0 Tc ( )Tj yaa0t9 3514U1a-.4(ty triP,cPleanalsealyzt.15ed for001dew [led