

New Course

Proposal Reference : 3178
 Number
 PRN Alias : 11-12#134
 Version No : 8
 Submitted By : Ms Nancy Nelson
 Edited By : Ms Josie D'Amico

[Display Printable PDF](#)

New Data							
Program Affected?	Y						
Program Change Form Submitted?	N (Simple Change) - Please add BIOL 320 to the list of "Other Complementary Courses" for B.Sc., Major Program in Neuroscience, under "200- and 300-level courses:" to "Basic Life Sciences Courses" in the Minor in Interdisciplinary Life Sciences; "12 credits of biologically oriented courses (BOC) selected from:" list, Major in Anatomy & Cell Biology; "3 credits of biologically oriented courses (BOC) selected from:" Honours in A&CB, "List B, 6-7 credits selected from:" Anatomy & Cell Biology Core Science Component; to "U2 or U3 Complementary Courses" list for Major and Honours in Biology under "12 credits selected from:", list of "Neurosciences Stream" in the Joint Major in Biology and Mathematics under the "Stream Complementary Courses."						
Subject/Course/Term	BIOL 320 <ul style="list-style-type: none"> one term 						
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>A - Lecture</td> <td>2</td> </tr> <tr> <td>Q - Conference</td> <td>1</td> </tr> </tbody> </table>	Schedule Type	Hours per week	A - Lecture	2	Q - Conference	1
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A - Lecture	2						
Q - Conference	1						
Total Hours per Week : 3 Total Number of Weeks : 13							
Course Title	<table border="1"> <tr> <td>Official Course Title :</td> <td>Evolution of Brain and Behav</td> </tr> <tr> <td>Course Title in Calendar :</td> <td>Evolution of Brain and Behaviour</td> </tr> </table>	Official Course Title :	Evolution of Brain and Behav	Course Title in Calendar :	Evolution of Brain and Behaviour		
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Rationale	The large number of undergraduates requesting neurobiology courses indicates that there is both an interest in and a need for additional courses. While there are a number of courses in the Biology department that teach evolutionary principles, there is no course that focuses on the evolution of behaviour and neurobiological mechanisms. The proposed course will address how evolutionary changes in behaviour are mediated by evolutionary changes in specific brain circuits and inform students about the functions of different brain systems in a variety of species. This course will build upon principles taught in other neuroscience courses, such as BIOL 306 (Neural Basis of Behavior) and will complement the only						

	existing neuroanatomy course offered to undergraduates (ANAT 321), which focuses exclusively on human neuroanatomy.
Responsible Instructor	Sarah Woolley/Jon Sakata
Course Description	Functional and comparative approach to neuroanatomy, examining how species changes in brain organization contribute to evolutionary changes in behaviour.
Teaching Dept.	0286 : Biology
Administering Faculty/Unit	SC : Faculty of Science
Prerequisites	NCSI 201 or BIOL 306 Web Registration Blocked? : N
Corequisites	
Restrictions	
Supplementary Calendar Info	1. Winter, 2 hours of lecture and 1 hour of conference (mandatory) per week.
Additional Course Charges	
Campus	Downtown
Projected Enrollment	40
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	201301
File Attachments	No attachments have been saved yet.
To be completed by the Faculty	
For Continuing Studies Use	

Approvals Summary

Biology 320: Evolution of Brain and Behaviour

Prof. Sarah Woolley and Jon Sakata

Course Outline

- I. Introduction (1 lecture)
- II. Principles of brain evolution (4 lectures)
- III. Evolutionary changes in brain size (2 lectures)
- IV. Neural Systems
 - a. Cerebellum (2 lectures)
 - b. Basal ganglia (4 lectures)
 - c. Prefrontal cortex (3 lectures)
 - d. Septum (2 lectures)
 - e. Ventral Pallidum (2 lectures)
 - f. Hippocampus (4 lectures)
 - g. Vocal motor circuitry (2 lectures)

Each week, there will be one mandatory conference (i.e., two lectures and one conference per week).

Selected readings potentially from:

- Striedter: Principles of Brain Evolution (2005)
- Butler and Hodos: Comparative Vertebrate Neuroanatomy (2005; PDFs available online)
- Kaas: Evolutionary Neuroscience (2009)
- Kandel, Schwartz, Jessel: Principles of Neural science (2000)
- Purves et al.: Neuroscience (2008)

The grades will be based on the following:

- 20% midterm exam
- 30% final exam
- 30% research paper
- 10% presentation
- 10% class participation

McGill Biology Department

Guidelines for the Course Proposal/Change Form

CONSULTATION REPORT FORM
RE: COURSE / PROGRAM PROPOSALS

DATE: JAN. 26/2012
TO: _____
FROM: Nancy Nelson BIOL ADVISOR, *4109

The attached proposal has been submitted to the Curriculum/Academic Committee, and it has been decided that your department should be consulted.

Course #: Biology 320 Evolution of Brain and Behaviour

Would you be good enough to review this proposal and let me know no later than Jan 30/12 on this form, whether or not your department has any objections to, or comments regarding, the proposal.

NO OBJECTIONS SOME OBJECTIONS

COMMENT

Some overlap with Anat 321
but focus of course is very different

Signature: _____

Date: Feb 2, 2012

From: Vittoria Catania, Ms.
Sent: Friday, February 03, 2012 4:41 PM
To: Josie D'Amico
Subject: Added BOC to Anatomy & Cell Biology - BIOL 320

Hi Josie,
As discussed, please add BIOL 320 to the following programs:
Honours – BOC list – 3 credits
Majors – BOC list – 12 credits
Liberal – List B – 6-7 credits.

Have a great weekend!

Vittoria Catania
Student Affairs Administrator
www.mcgill.ca/anatomy
Department of Anatomy & Cell Biology
3640 University Street, Room 1/60
Montreal, Qc H3A 2B2
Tel: 514-398-6335
Fax: 514-398-5047

Students: Please note that to protect your privacy, we will only reply to you at your official McGill e-mail address. Please check your McGill e-mail regularly to ensure that you do not miss any important messages.

From: Ryan Bouma
Sent: Wednesday, February 01, 2012 4:15 PM
To: Josie D'Amico
Cc: Nancy Nelson, Ms.; Monroe W. Cohen
Subject: RE: New course proposal consultation request--re-sending at request of Laurie Hendren

Hi Josie,

Just to clarify, we would like to include BIOL 320 in the Neuroscience list of Other Complementary Courses, in the 200-300 level section.

Ryan Bouma
Interdisciplinary Program Adviser
Faculty of Science
Dawson Hall, Room 411
853 Sherbrooke Street West
Montreal, QC H3A 2T6

From: Monroe W. Cohen
Sent: Wednesday, February 01, 2012 11:11 AM
To: Josie D'Amico
Cc: Nancy Nelson, Ms.; Ryan Bouma
Subject: RE: New course proposal consultation request--re-sending at request of Laurie Hendren

Hi Josie,

BIOL 320 will be a valuable addition as a complementary course in the Neuroscience Major, and we will include it in the program.

Monroe

From: Josie D'Amico
Sent: Wednesday, February 01, 2012 9:52 AM
To: Nancy Nelson, Ms.; Sonia Viselli; Vittoria Catania, Ms.; gillian@hebb.psych.mcgill.ca; Monroe W. Cohen
Cc: Sarah Woolley, Dr.
Subject: RE: New course proposal consultation request--re-sending at request of Laurie Hendren

Thanks, everyone.

I just want to point out that the prerequisite courses for BIOL 320 are:

NSCI 201 (Introduction to Neuroscience) OR
BIOL 306 (Neural Basis of Behavioural)

Laurie and I would appreciate it very much if you could let us know as soon as possible. We will be holding our Pre-Academic meeting tomorrow at noon, so if you could let us know quickly, that would be great.

Please let me know if you have any questions.

Josie

From: Nancy Nelson, Ms.

Sent: Wednesday, February 01, 2012 8:54 AM

To: Sonia Viselli; Vittoria Catania, Ms.; gillian@hebb.psych.mcgill.ca; Monroe W. Cohen

Cc: Sarah Woolley, Dr.; Josie D'Amico

Subject: New course proposal consultation request--re-sending at request of Laurie Hendren

Dear All,

Laurie Hendren asked me to revisit the subject with each of you to see if you would be interested in including this course in your ULS, BOC, or complementary courses for your Majors and Honors programs. If so, please include that note in your consultation forms so that we could take care of it with the course proposal, rather than having to submit several revisions.

BIOL will include the course in its complementary course list for the Neuro stream of our Majors and Joint Majors.

I hope to hear from you as soon as possible.

Thanks

Nancy

Dear Sonia, Vittoria and Sarah,

We circulated a form on this topic back in September but in the confusion we never heard back. I'll attach the proposal and outline, and we'd like to confirm your opinions to Josie d'Amico by Monday Jan 30 if possible.

Please print your name and department in the "TO:" section of the consultation form.

Thanks

Nancy

Best regards,

Nancy Nelson

Undergraduate Advisor

McGill University

Department of Biology

STEWART Biology Building W3/25

1205 Avenue Docteur Penfield

Montréal Québec H3A 1B1

Phone: 514-398-4109

Fax: 514-398-5069

Mail to: Nancy.Nelson@mcgill.ca

McGill students: please use your official McGill email, and include your student id number in all correspondence.

Office hours Winter 2012:

Mondays and Thursdays 10-11:30
Wednesdays 2-3:30

From: Gillian O'Driscoll <gillian@ego.psych.mcgill.ca>
Sent: Wednesday, February 01, 2012 3:45 PM
To: Josie D'Amico
Subject: RE: New course proposal --O'Driscoll Psych

Hi Josie,
Yes, that was intended to be our consultation. The course looks good and does not overlap our courses.
Gillian

From: Josie D'Amico [mailto:josie.damico@mcgill.ca]
Sent: February-01-12 3:30 PM
To: 'Gillian O'Driscoll'
Subject: RE: New course proposal --O'Driscoll Psych

Thank you, Gillian.

I didn't think you needed to modify your programs, but I just wanted to make sure that was consultation with Psychology about the course itself.

Thanks, again.

Josie

From: Gillian O'Driscoll [mailto:gillian@ego.psych.mcgill.ca]
Sent: Wednesday, February 01, 2012 3:28 PM
To: Josie D'Amico
Cc: Sarah Khayutin, Ms; Nancy Nelson, Ms.
Subject: RE: New course proposal --O'Driscoll Psych

Thank you for sending the documents.

Biol 320 looks great. I checked our program and it doesn't look like we would need to modify any aspect of it to allow our students to take Biol 320 for credit toward their Major or for their Honours degree. Currently, we say they can take 12 credits (for major; 9 for Honours) at the 300 and above level in Biology as complementary courses, and these would include this course.

Gillian O'D.
UG Program Director
Dept of Psych

From: Josie D'Amico [mailto:josie.damico@mcgill.ca]
Sent: February-01-12 9:52 AM
To: Nancy Nelson, Ms.; Sonia Viselli; Vittoria Catania, Ms.; gillian@hebb.psych.mcgill.ca; Monroe W. Cohen
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Best regards,

Nancy Nelson
Undergraduate Advisor
McGill University
Department of Biology
STEWART Biology Building W3/25
1205 Avenue Docteur Penfield
Montréal Québec H3A 1B1
Phone: 514-398-4109
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Mail to: Nancy.Nelson@mcgill.ca

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