

# **INTEGRATIVE NEUROSCIENCE**

## **PHGY 314**

**Fall Term 2016 Schedule**  
**M.W.F. 11:35 a.m – 12:25 p.m**  
**Leacock Building Room 26**

Coordinator: Dr. Maurice Chacron  
Room 1137, McIntyre Medical Bldg.

Email: [maurice.chacron@mcgill.ca](mailto:maurice.chacron@mcgill.ca)

# Physiology 314 Syllabus

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Lecture Date	Topic	Lecturer
Sept. 2,7	<i>The Organization and Planning of Movement</i> <i>Chapters: 15-18</i>	<b>Dr. M. Chacron</b>
Sept. 9,12,14,16,19,21,23	<i>The Visual System and Computational Vision</i> <i>Chapters 25-28</i>	<b>Dr. C. Pack</b>
*Monday Sept. 19 my Courses for your review.		<i>Assignment Topics will be posted on</i> <i>Sign up</i>
<i>begins on Monday, <u>September 26</u> starting at 10am.</i>		

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**October 10**

**Thanksgiving Day - NO LECTURE**

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**Sept. 26,28,30**

*Physiological Basis of Cognition*

**Dr. E. Cook**

**Oct. 3,5,7,12**

(Oct. 10<sup>TH</sup> Thanksgiving)

*Chapters 21, 49-51, 56, 59,62*

**Dr. M. Vollrath**

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**Oct. 14,17,19,21,24,26,28**

*Learning and Memory:  
Lessons from model Organisms  
Chapter 67*

**Dr. M. Chacron**

**Oct. 31**

*Spatial Learning*

**Dr. M. Brandon**

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**Nov. 2,4,7,9**

**\*Tuesday November 1st**

**MID-TERM EXAM**

Mid-term exam 7:30pm-9:00pm in Palmer Amphitheatre Room 522  
McIntyre Medical Building

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**Nov. 11,14,16,18**

*Auditory System:  
Peripheral and Central Processing  
Chapters 30-31*

**Dr. M. Vollrath**

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**Nov. 21,23,25**

*Resting State Networks  
Chapter 20*

**Dr. A. Shmuel**

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**Nov. 28,30**

*The Somatosensory System*

**Dr. R. Sharif**

**Dec. 2,5**

*Chapters 21-24*

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**\*Thursday November 24th**

**ASSIGNMENTS DUE by 4:00pm in the General Office, Room 1021**  
McIntyre Medical Building

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## **ACADEMIC INTEGRITY**

*McGill University values academic integrity. Therefore all students must understand the meaning and consequences of cheating, plagiarism and other academic offences under the Code of Student Conduct and Disciplinary Procedures (see <http://www.mcgill.ca/srr/honest/> for more information)*

*Every student has the right to write term papers, examinations, and theses in English or French, except in courses where knowledge of the language is one of the objectives of the course.*

*Instructor generated course materials (e.g., handouts, notes, summaries, exam questions, etc.) are protected by law and may not be copied or distributed in any form or in any medium without explicit permission of the instructor. Note that infringements of copyright can be subject to follow up by the University under the code of Student Conduct and Disciplinary Procedures.*

*In the event of extraordinary circumstances beyond the University's control, the content and/or evaluation scheme in this course is subject to change.*

# EVALUATION OUTLINE

## 1. Mid-Term Examination

**Mid-Term exam from 7:30pm-9:00pm in the Palmer Amphitheatre (room 522, McIntyre Building).**

The midterm is scheduled for **Tuesday, November 1st, 2016** from 7:30-9:00 pm in Palmer Howard Amphitheatre, Room 522. The exam will cover material up to and including October 28<sup>th</sup>. The exam is multiple choice type questions. You will not be permitted to take the exam booklets or the actual exam from the exam room. Once the exams have been graded, an Exam Viewing will be scheduled.

Please note that **multiple versions** of exams will be administered to reduce any temptation for copying a more "correct" answer.

***If you miss writing the midterm exam, you MUST BRING a doctors' note or other supporting document to the main office, room 1021, McIntyre Building no later than 2 WEEKS after the exam date. If a legitimate note is not provided, you will receive a zero on the midterm.***

## **2. Assignments:**

Take-home essay/problem/reading material. One assignment per term will be compulsory.

Assignments will be posted **for your review on Monday, September 19.**

Decide on one choice and sign up on *myCourses* on **Monday September 26 starting at 10:00am.** Note that spaces are limited, and ONLY ONE assignment can be chosen.

Some professors will have 2 choices of topics –once you have registered for that professor's assignment you must choose one topic.

Sign up instructions will be posted on *myCourses*.

Professors may arrange special tutorials and/or office meetings with students who require specific directions. Note that assignment must represent personal work in the final writing of the submitted essay.

The assignment is due on **Thursday, November 24 by 4:00 pm in the General Office, Room 1021.** Marks will be deducted for late submissions: 5% mark deduction, per day, for late submissions (including the weekend).

### **3. Final Exam:**

The Final exam will take place during the exam period. Will be made of multiple-choice type questions. It will cover **the entire course but more questions will be given for post-midterm material so the course will have been uniformly evaluated over the entire term.**

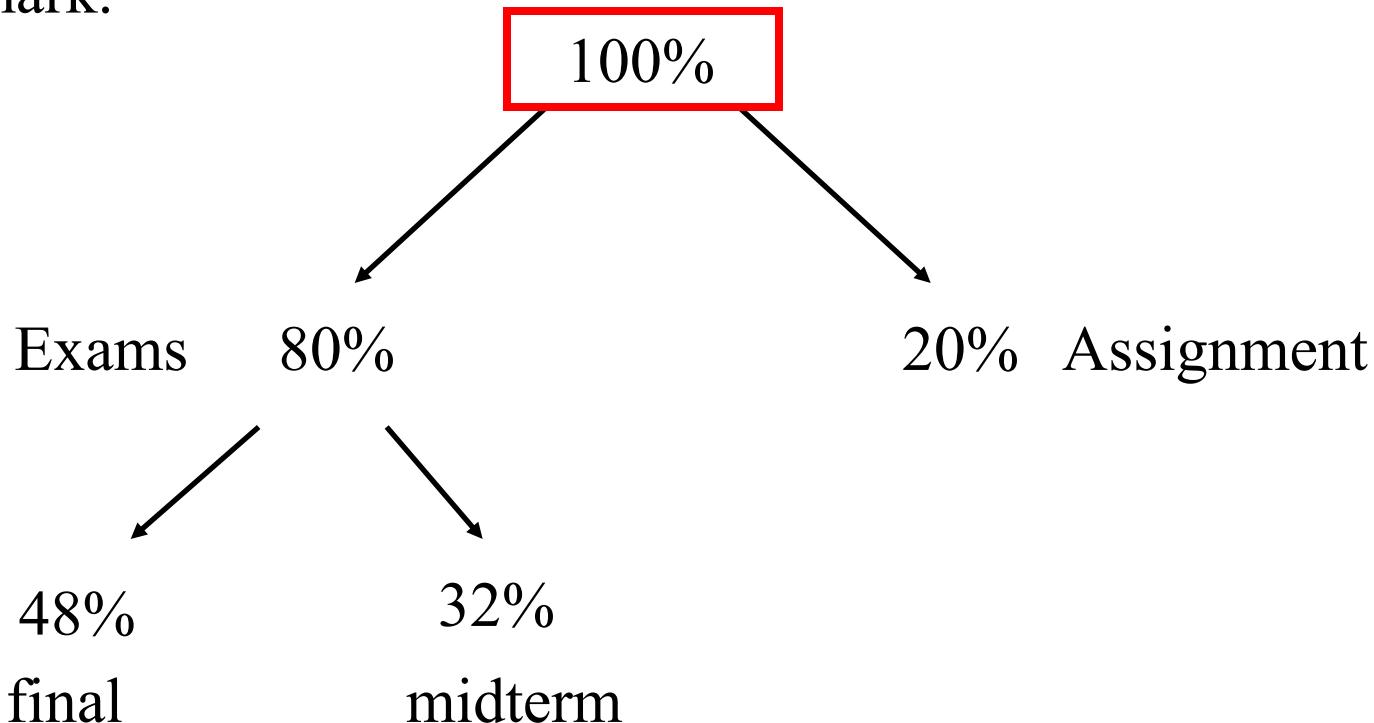
You will not be permitted to take the actual exam from the exam room.

Please note that multiple versions of exams will be administered in order to reduce any temptation for copying a more “correct” answer.

Once the exams have been graded, an Exam Viewing will be scheduled.

## **Marking Scheme:**

**The exams will total 80%,** of this 80%, the mid-term will be worth 32% and the Final exam will be worth 48%. The assignment will count for 20% of the final mark.



Each section has one TA assigned. Please email specific questions for each section to the assigned TA, or drop in during office hours. Also, there will be a question answer period offered before the midterm and final.

**TAs :**

Gary Huang ([chengjie.huang@mail.mcgill.ca](mailto:chengjie.huang@mail.mcgill.ca))

Dr. Chacron, Dr. Pack, Dr. Sharif-Naeini

Jack Lam ([jackie.lam@mail.mcgill.ca](mailto:jackie.lam@mail.mcgill.ca))

Dr. Cook, Dr. Vollrath, Dr. Brandon, Dr. Schmuel

**TA Office Hours:**

**TAs :**

Gary Huang ([chengjie.huang@mail.mcgill.ca](mailto:chengjie.huang@mail.mcgill.ca)) McIntyre Medical Building room 1134

Dr. Chacron, Dr. Pack, Dr. Sharif

Jack Lam ([jackie.lam@mail.mcgill.ca](mailto:jackie.lam@mail.mcgill.ca)) MNI Brain Imaging Centre, room NWB 225

Dr. Cook, Dr. Vollrath, Dr. Brandon, Dr. Shmuel

**TA Office hours:**

Gary: Wednesdays 3pm-4pm at McIntyre medical building, room 1134

Jack: Mondays 3-4pm at MNI Brain Imaging Centre, room NWB 225

## **Course Evaluations:**

Course evaluations will be made available on Minerva in November 2016.

## **Textbook:**

Kandel, E.R. et al ed. Principles of Neural Science,  
5th Edition. McGraw Hill Press.

## **Lecturer Specific Materials:**

Will be uploaded for you onto My Courses.

## **Tutorial Service:**

Tutorial services are available through Dean of Students (398-6011).

**In addition to the lectures and assigned chapters and each Lecturer will include a journal article in their session.**

**e.g., the article for Dr. Chacron's section is**

Navigation-related structural change in the hippocampi of taxi drivers., Maguire et al. PNAS 97: 4398-4403 (2000).

Which can be found in *my courses* and will be covered in his 3<sup>rd</sup> lecture.