

PHGY 314
INTEGRATIVE NEUROSCIENCE
Course Schedule - Fall 2019

Lecturers: Dr. Maurice Chacron, Co-coordinator Room 1137, McIntyre Bldg., 514-398-7493, maurice.chacron@mcgill.ca
Dr. Christopher Pack, MNI, Room 896A, 514-398-1254/1913, christopher.pack@mcgill.ca
Dr. Reza Sharif-Naeini, Room 171, Bellini Bldg., 514-398-5361, reza.sharif@mcgill.ca
Dr. Melissa Vollrath, Room 1234, McIntyre Bldg, 514-398-2410, melissa.vollrath@mcgill.ca
Dr. Erik Cook, Room 1225, McIntyre Building, 514-398-7691, erik.cook@mcgill.ca
Dr. Amir Shmuel, MNI, 514-398-2192, amir.shmuel@mcgill.ca
Dr. Mark Brandon, Douglas Hospital Research Center, mark.brandon@mcgill.ca

Location: **RPHYS 112 (Rutherford Physics Building, 3600 University Street)**

Time: **Mondays, Wednesdays & Fridays from 8:35am - 9:25am**

<i>Date</i>	<i>Day</i>	<i>Lecture Title</i>	<i>Lecture</i>	<i>Lecturer</i>
Sept.04	W	The functional organization of perception and movement chapters 15-16	1	M.C.
06	F	The representation of personal versus extrapersonal space chapters 17-18	2	M.C.
09	M	Learning and Memory: Lessons from Model Organisms chapters 66-67	3	M.C.
11	W	Learning and Memory: Lessons from Model Organisms chapters 66-67	4	M.C.
13	F	Learning and Memory: Lessons from Model Organisms chapters 66-67	5	M.C.
16	M	Learning and Memory: Lessons from Model Organisms chapters 66-67	6	M.C.
18	W	Learning and Memory: Lessons from Model Organisms chapters 66-67	7	M.C.
20	F	Learning and Memory: Lessons from Model Organisms chapters 66-67	8	M.C.
23	M	The Visual System General Overview chapter 25, 26	9	C.P.
25	W	The Visual System chapter 26	10	C.P.
27	F	The Visual System chapter 27	11	C.P.
30	M	The Visual System chapter 27 <i>Topics will be assigned to students randomly and posted via MyCourses. See page 2 for details.</i>	12	C.P.
Oct. 02	W	The Visual System chapter 28	13	C.P.
04	F	The Visual System chapter 28	14	C.P.
07	M	Computational Vision	15	C.P.
09	W	Physiological Basis of Cognition chapter 21	16	E.C.
11	F	Physiological Basis of Cognition chapter 29	17	E.C.
14	M	THANKSGIVING – NO CLASS		
16	W	Physiological Basis of Cognition chapter 56	18	E.C.
18	F	Physiological Basis of Cognition chapter 65	19	M.V.
21	M	Physiological Basis of Cognition chapter 60	20	M.V.
23	W	Physiological Basis of Cognition chapters 47-49	21	M.V.
25	F	Physiological Basis of Cognition chapters 47-49	22	M.V.
28	M	Auditory System: Peripheral and Central Processing chapters 30-31	23	M.V.
30	W	Auditory System: Peripheral and Central Processing chapters 30-31	24	M.V.
Oct. 31	TH	Mid-Term Exam from 7:00pm - 8:30pm in the Palmer Amphitheatre Room 522. Please see page 2 for details!		
Nov. 01	F	Auditory System: Peripheral and Central Processing chapters 30-31	25	M.V.
04	M	Auditory System: Peripheral and Central Processing chapters 30-31	26	M.V.
06	W	Resting State Networks chapter 20	27	A.S.
08	F	Resting State Networks chapter 20	28	A.S.
11	M	Resting State Networks chapter 20	29	A.S.
13	W	Spatial Learning chapter ?	30	M.B.
15	F	Spatial Learning chapter ?	31	M.B.
18	M	Spatial Learning chapter ?	32	M.B.
20	W	Spatial Learning chapter ?	33	M.B.
22	F	Spatial Learning chapter ?	34	M.B.
25	M	The Somatosensory System chapters 21-24	35	R.S.
27	W	The Somatosensory System chapters 21-24	36	R.S.
29	F	The Somatosensory System chapters 21-24	37	R.S.
Dec. 02	M	The Somatosensory System chapters 21-24	38	R.S.
*03	T	TBD		

***Tuesday, December 3rd, 2019 follows a "Monday" schedule**

EVALUATION

1. MIDTERM EXAMINATION

The midterm is scheduled for **Thursday, October 31, 2019** from 7:00pm - 8:30pm in **Room 522 Palmer Amphitheatre (McIntyre Bldg)**. **The exam will cover material up to and including October 25, 2019.** The exam is usually, but not always, multiple choice type questions. Please note that multiple versions of exams will be administered in order to reduce any temptation for copying a more “correct” answer. You will not be permitted to take the actual exam from the exam room. Once the exams have been graded, an **Exam Viewing** will be scheduled.

Students, who for serious reasons (e.g., illness or family affliction) cannot write the **MIDTERM EXAM**, are required to submit supporting documentation to the **Physiology General Office, McIntyre Bldg., Room 1021** within **ONE WEEK** following the midterm exam date (**by Thursday, November 7, 2019 at 4:00pm**). The note must indicate clearly the reason for being unable to write the midterm exam on **Thursday, October 31, 2019**. Following submission of a valid note, students will have the option to write a “Deferred” exam (*scheduled during the week of November 11, 2019*) or have the final exam count for **100%** of their grade. Students must email the course secretary at undergrad2.physiology@mcgill.ca by **Thursday, November 7, 2019 at 4:00pm** indicating the option chosen. If no acceptable documentation is provided by the deadline indicated above, the midterm exam will count for **ZERO** and the final exam will count for **60%**.

2. ASSIGNMENT

Students are to submit an individual written term paper assignment. Topics will be assigned to students *randomly* and posted via MyCourses on **Monday, September 30, 2019**. It is **VERY IMPORTANT** to follow all formatting requirements as your grade will otherwise be lowered. The assignment should be no more than **5 typewritten pages, 1.5 line-spaced (excluding cover page), Times New Roman font (12 point), with 2 cm page margins**. Students are permitted (but not required) to include one (1) additional page containing figures. References are to be included at the end of the document (there is no page limit for references). The assignment is to be **handed in as a hardcopy** to the **Physiology General Office, Room 1021, McIntyre Bldg.**, on **Thursday, November 28, 2019** by 4:00pm. **There will be a 5% mark deduction, per day, for late submissions (including the weekend).** All assignments are of similar difficulty and grades will be normalized (up or down) so that they are fair and comparable for each section.

3. FINAL EXAMINATION

The Final exam will take place during the exam period. It is usually, but not always, 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 the overall final grade – the mid-term will be worth 32% (0.4x80%) and the final will be worth 48% (0.6x80%). The assignment will count for 20% of the final grade.

SUPPLEMENTAL AND DEFERRED EXAMS

The Supplemental exam is worth 80% and the deferred exam is worth the same as the final exam. **PLEASE NOTE:** These exams will differ from the Final exam and permission to write them must be obtained from the Associate Dean of Science (please contact Service Point for more information).

USCAS

- **Olivia Vadicchino** → olivia.vadicchino@mail.mcgill.ca
Dr. Chacron, Dr. Cook, Dr. Vollrath (Cognition), and Dr. Brandon
- **Camille Zeitouni** → camille.zeitouni@mail.mcgill.ca
Dr. Pack, Dr. Vollrath (Auditory), Dr. Shmuel, and Dr. Sharif

COURSE EVALUATIONS

Course Evaluations will be made available in November, 2019 on Minerva.

TEXTBOOK

Kandel, Eric R., et al. Principles of Neural Science, 5/e. New York: McGraw-Hill, 2012

TUTORIAL SERVICE

Tutorial services are available through the Dean of Students (514-398-6011)

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.

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

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