

MAMMALIAN PHYSIOLOGY 1: PHGY 209 001 & 002

LECTURE SCHEDULE 2018-2019

Lectures are held in the Stephen Leacock Building, Room 132
 Section 001 – Monday, Wednesday and Friday from 9:35 a.m. – 10:25 a.m.
 Section 002 – Monday, Wednesday and Friday from 11:35 a.m. – 12:25 p.m.

Course Co-Coordinators

Dr. Melissa A. Vollrath (514-398-2410), McIntyre Medical Sciences Building, Room 1234
 Dr. Ann Wechsler (514-398-4341), McIntyre Medical Sciences Building, Room 1135
 Dr. Alvin Shrier (514-398-2272), Bellini Life Science Complex, Room 165

2018	Monday	Wednesday	Friday	TOPIC	LECTURER
Sept.	LD	5	7	Introduction & Body Fluids	Dr. M. Vollrath (3)
	10				
		12	14	Transport Mechanisms	Dr. A. Shrier (2)
	17	YK	21	Blood	Dr. A. Wechsler (5)
Oct.	24	26	28		
	Voting	3	5	Immunology	Dr. P. Gold (5)
	TG	10	12		
	15				
Nov.		17	19	Nerve - Synapse	Dr. D. Ragsdale (5)
	22	MT	26		
	29				
		31		CNS – Sensory	Dr. E. Cook (5)
Dec.			2		
	5	7	9		
	12	14	16	CNS – Cognitive/Motor	Dr. E. Cook (6)
	19	21	23		
Dec.	26	28	30	Autonomic Nervous System	Dr. D. Ragsdale (6)
	3	4(Tue)			

NO LECTURES will be held on the following dates: LD: Labor Day (**Monday, Sept. 3, 2018**); YK: Yom Kippur (**Wednesday, Sept. 19**); Voting: General Election (**Monday, Oct. 1, 2018**); TG: Thanksgiving Day (**Monday, Oct. 8, 2018**); MT: Midterm Prep (**Wednesday Oct. 24, 2018**)

Midterm Exam: **Wednesday, October 24, 2018 from 7:00 - 8:30 p.m. (location to be announced)**

Material: Body Fluids, Transport Mechanisms, Blood, Immunology

Final Exam: Held during the final exam period in December. The date is determined by the Faculty of Science.

Mark Distribution: Midterm 30%, Final 70%

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TUTORIAL SESSIONS 2018

LECTURER	DAY	DATE	TIME	ROOM
Drs. M. Vollrath & A. Shrier	Wednesday	Oct. 10	5:30 – 6:30 p.m.	EDUC 129
Dr. A. Wechsler	Wednesday	Oct. 17	5:30 - 6:30 p.m.	EDUC 129
Dr. E. Cook CNS – Sensory & Cognitive/Motor)	Wednesday	Nov. 28	5:30 - 7:00 p.m.	MCMED 1034 (Not recorded)
Dr. D. Ragsdale (Muscle/ANS & Nerve/Synapse) (Wednesday	Dec. 5	5:30 - 7:00 p.m.	MCMED 1034 (Not recorded)

Please note that no new material will be introduced during the tutorials; these sessions are intended for clarification and reinforcement of the subject matter covered in regular class.

When you are studying, make it a habit to write down difficult points that you do not fully understand. Come to the tutorial prepared to ask questions and to discuss the answers with the individual professors. Students studying in English for the first time are especially encouraged to attend these tutorial sessions.

Note 1: 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 www.mcgill.ca/students/srr/honest/ for more information).

Note 2: In accord with McGill University's Charter of Students' Rights, students have the right to submit in English or in French any written work that is to be graded (except in courses where knowledge of a language is one of the objectives of the course).

Note 3: In the event of extraordinary circumstances beyond the University's control, the content and/or evaluation scheme in this course is subject to change.

Note 4: © 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.

PHYSIOLOGY 209 2018-2019

REQUIRED TEXTBOOK READINGS:

*Vander's Human Physiology: The Mechanisms of Body Function – by Widmaier, Raff and Strang
13th, 14th & 15th edition*

LECTURER	TOPIC	PAGES
Dr. M. Vollrath	Body Fluids	Vander's 13th Edition: Chapter 1 (all); Pages 27-30; 363-364; 506; 594-595
		Vander's 14th Edition: Chapter 1 (all); Pages 27-30; 361-362; 498-499; 586-587
		Vander's 15th Edition: Chapter 1 (all); Pages 27-30; 363-364; 503; 595-596
Dr. A. Shrier	Transport Mechanisms	Vander's 13th Edition: Pages 96-113; 48-51; 395-402
		Vander's 14th Edition: Pages 95-113; 46-51; 396-403
		Vander's 15th Edition: Pages 95-113; 46-51; 399-406
Dr. A. Wechsler	Blood	Vander's 13th Edition: Pages 398-402; 404-405; 428-439
		Vander's 14th Edition: Pages 361-66; 396-403; 405-406; 428-34
		Vander's 15th Edition: Pages 363-367; 402-409; 431-437
Dr. P. Gold	Immunology	Vander's 13th Edition: (Chapter 18) Pages 653-688
		Vander's 14th Edition: (Chapter 18) Pages 643-669
		Vander's 15th Edition: (Chapter 18) Pages 655-686
Dr. D. Ragsdale	Nerve/Synapse	Vander's 13th Edition: Ch. 6 138-142; 145-172;
		Vander's 14th Edition: Ch. 6 137-140; 143-170
		Vander's 15th Edition: Ch. 6 137-140; 143-170
Dr. D. Ragsdale	Muscle & Autonomic Nervous System	Vander's 13th Edition: Ch. 6 180-186; Ch. 9 257-291
		Vander's 14th Edition: Ch. 6 178-183; Ch. 9 255-290
		Vander's 15th Edition: Ch. 6 177-183; Ch. 9 257-292
Dr. E. Cook	CNS – Sensory	Vander's 13th, 14th and 15th Edition: Ch. 6 (D only, skip Autonomic Nervous System); Ch. 7 (all)
Dr. E. Cook	CNS - Cognitive/Motor	Vander's 13th, 14th and 15th Edition: Chapter 8 (all) and Chapter 10 (all)

Please note: Students are responsible for these readings, as it may enhance the subjects covered in the lectures and which may be tested the midterm and/or final examinations.

PHYSIOLOGY 209

General Information

Physiology is the study of normal functional activities in the living organism. These activities may be examined at the molecular, cellular, organ, organ-system, and organismal levels; the Department's introductory courses will expose the student to the various aspects of the discipline.

The two courses, PHGY 209 (**3 credits**) and PHGY 210 (**3 credits**), really, constitute a single course, designed as an introduction to Mammalian Physiology. The normal sequence is 209 (in the Fall) followed by 210 (in the Winter); it is permissible, but more challenging, to take them in the reverse order.

Physiology 209 and 210 are required courses for all Physiology Programs and are prerequisites for all other courses offered by the Department. They are also required or complementary courses for students registered in other biomedically-related departments in the Faculty of Science (Biology, Cell Biology and Anatomical Sciences, Biochemistry, Microbiology and Immunology, Pharmacology and Therapeutics, Psychology), as well as, the professional programs in Nursing, Physical Therapy, Occupational Therapy, and for Kinesiology in the Faculty of Education.

The prerequisites are college (or CEGEP) courses in Biology, Chemistry, and Physics, with Organic Chemistry (CHEM 212 and CHEM 222, or equivalents) as pre- or co-requisites.

Students in all Physiology programs are also required to take the laboratory courses PHGY 212 and 213; it is recommended that these be taken concurrently with PHGY 209 and 210, respectively.

Schedule

During the 2016/2017 academic year, PHGY 209 lectures will be held in the **Stephen Leacock Building (855 Sherbrooke Street West) in Room 132 on Mondays, Wednesdays, and Fridays. Section 001** will be held from **9:35 to 10:25 am**, and **Section 002** will be held from **11:35 am to 12:25 pm**.

Text

Students are responsible for assigned readings in the **required** textbook for the course: ***Vander's Human Physiology – The Mechanisms of Body Function***, edited by Widmaier, Raff, and Strang, 14th edition (2016). It will be available for purchase in the University Bookstore at 3544 Parc Avenue.

Course Evaluation

The **Midterm Examination** will be held in the evening of **Wednesday, October 24, 2018** from **7:00 - 8:30 p.m.** at a location that will be listed on *myCourses* at a later date. It will cover the following topics: Body Fluids, Transport Mechanisms, Blood and Immunology. The **Final Exam** will be **cumulative** and will be held during the December final examination period. The format of both exams is **Multiple Choice Questions**: 30 questions on the midterm and 70 questions on the final exam.

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 Wednesday, Oct. 31, 2018 at 4:00pm**). The note must indicate clearly the reason for being unable to write the midterm exam on **Wednesday, Oct. 24, 2018**. Following submission of a valid note, students will have the option to write a **"Deferred"** exam (**scheduled during the week of November 12, 2018**) or have the final exam count for **100%*** of their grade. Students must email the course secretary at undergrad1.physiology@mail.mcgill.ca by **Wednesday, Nov. 7, 2018 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 **70%**

Grading

The Department of Physiology will **NOT** revise/upgrade marks except on sound academic grounds. Once computed, the marks in this course will **NOT** be altered/increased arbitrarily. Decimal points will be “rounded off” as follows: if the final aggregate mark is computed to be 79.5%, the mark will be reported as 80% (an A-); a final aggregate mark of 79.4% will be reported as 79% (a B+). These marks are **FINAL and NON-negotiable**.

Library Arrangements

Most of the reading area in the Medical Library is open to students taking Physiology, and they are encouraged to consult the various library holdings.

Course Management

This is a *myCourses* managed course. All course general information and announcements will be posted at <http://www.mcgill.ca/mycourses/>. Please visit the site often (requires McGill username and password) to check for updates. As well, information such as grades will be retrievable in a secure confidential fashion at this site.

Learning Aids

To facilitate learning, the visual material presented in class (much of it with animations) will be available on *myCourses* (<http://www.mcgill.ca/mycourses/>). If you wish to purchase a printed version of the slides/notes (rather than print on your own), a course pack will be available for purchase from PULS (Physiology Undergraduate League of Students, Rm. 1017 McIntyre Medical Sciences Building at a date to be announced in class). As the visual material is revised each year, students are advised to buy the latest version rather than use notes from previous years. As well, the lectures and tutorials will be automatically recorded, and these recordings may also be accessed on the *myCourses* site.

Tutorials

The course lecturers will hold tutorial sessions according to the attached schedule. Verify *myCourses* regularly for possible revisions. In addition, a system of peer undergraduate student course assistants (USCA) consisting of knowledgeable senior students will be available to help facilitate learning. The list of USCAs is posted on *myCourses*.

You are also welcome to see lecturers individually in their offices. In this case, you must telephone or e-mail the lecturer you wish to see and make an appointment beforehand.

Staff

<u>PHGY 209 Lecturers</u>	<u>Office</u>	<u>Telephone</u>	<u>E-mail</u>
Dr. M. Vollrath	McIntyre - Room 1234	514-398-2410	melissa.vollrath@mcgill.ca
Dr. A. Shrier	Bellini - Room 165	514-398-2272	alvin.shrier@mcgill.ca
Dr. A. Wechsler	McIntyre - Room 1135	514-398-4341	ann.wechsler@mcgill.ca
Dr. P. Gold	MGH - suite D13.173	514-934-1934 ext. 43061	phil.gold@mcgill.ca
Dr. D. Ragsdale	MNI-Neurobiology Unit	514-398-5048	david.ragsdale@mcgill.ca
Dr. E. Cook	McIntyre - Room 1225	514-398-7691	erik.cook@mcgill.ca
<u>Course Secretary</u>			
Mrs. J. Rondeau	McIntyre - Room 1021	514-398-4315	undergrad1.physiology@mcgill.ca
