

MAMMALIAN PHYSIOLOGY 1: PHGY 209 001 & 002

LECTURE SCHEDULE 2017-2018

Place: Stephen Leacock Building, Room 132

Time: 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-ordinators:

Dr. M. Vollrath (514-398-2410), McIntyre Medical Bldg, Room 1234

Dr. A. Wechsler (514-398-4341), McIntyre Medical Bldg, Room 1135

Dr. A. Shrier (514-398-2272), Bellini Medical Bldg, Room 165

		M	W	F	TOPIC	LECTURER
2017	Sept.	LD	6	8	Introduction & Body Fluids	Dr. M. Vollrath (3)
		11				
			13	15	Transport Mechanisms	Dr. A. Shrier (2)
	Oct.	18	20	RH	Blood	Dr. A. Wechsler (5)
		25	27	29		
		2	4	6	Immunology	Dr. P. Gold (5)
		TG	11	13		
		16	18	20	CNS - Sensory	Dr. E. Cook (11)
	23	MT	27			
	30					
	Nov.		1	3	CNS – Cognitive/Motor	Dr. E. Cook (11)
		6	8	10		
		13	15	17	Nerve/Synapse	Dr. D. Ragsdale (11)
		20	22			
				24	Muscle/ Autonomic Nervous System	Dr. D. Ragsdale (11)
	27	29				
			1			
	Dec.	4	6			

LD: Labour Day (**Monday, Sept. 5, 2017**) – **NO LECTURE**; **RH:** Rosh Hashanah (**Friday, Sept 22, 2017**) – **NO LECTURE**; **TG:** Thanksgiving (**Monday, Oct. 9, 2017**) – **NO LECTURE**; **Midterm Prep (Wednesday Oct. 25, 2017)– NO LECTURE**

Midterm Exam: **Wednesday, October 25, 2017 from 7:00 - 8:30 p.m. (location to be announced)**

Material: Body Fluids, Transport Mechanisms, Blood, Immunology

Final Exam: During final exam period in December which is determined by the Faculty of Science.

Material: Cumulative but with focus on CNS, Nerve/Synapse and Muscle/ANS lectures.

Mark Distribution: Midterm 30%, Final 70%

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TUTORIAL SESSIONS 2017

LECTURER	DAY	DATE	TIME	ROOM
Drs. M. Vollrath & A. Shrier	Thursday	Oct. 5	5:30 – 6:30 p.m.	Palmer Theatre McIntyre Bldg, Room 522
Dr. A. Wechsler	Thursday	Oct. 12	5:30 - 6:30 p.m.	Palmer Theatre McIntyre Bldg, Room 522
Dr. P. Gold	Thursday	Oct. 19	5:30 - 6:30 p.m.	McIntyre Bldg. Room 208/9
Dr. E. Cook CNS – Sensory & Cognitive/Motor	Thursday	Nov. 30	5:30 - 7:00 p.m.	Martin Theatre McIntyre Bldg, Room 504
Dr. D. Ragsdale Nerve/Synapse and Muscle/ANS	Thursday	Dec. 7	5:30 - 7:00 p.m.	Palmer Theatre McIntyre Bldg, Room 522

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
2016-2017**

REQUIRED TEXTBOOK READINGS:

*Vander's Human Physiology: The Mechanisms of Body Function,
13th & 14th 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
Dr. A. Shrier	Transport Mechanisms	Vander's 13th Edition: Pages 96-113; 48-51; 395-402
		Vander's 14th Edition: Pages 95-112; 46-51; 396-403
Dr. A. Wechsler	Blood	Vander's 13th Edition: Pages 417-427
		Vander's 14th Edition: Pages 361-66; 396-403; 405-406; 428-34
Dr. P. Gold	Immunology	Vander's 13th Edition: (Chapter 18) Pages 653-688
		Vander's 14th Edition: (Chapter 18) Pages 643-669
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
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
Dr. E. Cook	CNS – Sensory	Vander's 13th Edition: Chapter 6 (Section D only, skip Autonomic Nervous System) and Chapter 7 (all)
		Vander's 14th Edition: Chapter 6 (Section D only, skip Autonomic Nervous System) and Chapter 7 (all)
Dr. E. Cook	CNS - Cognitive/Motor	Vander's 13th Edition: Chapter 8 (all) and Chapter 10 (all)
		Vander's 14th Edition: Chapter 8 (all) and Chapter 10 (all)

Please note that the above chapters and pages correspond to ***Vander's Human Physiology: The Mechanisms of Body Function edited by Widmaier, Raff, and Strang (13th and 14th edition)***. All students are responsible for reading the above mentioned material, as it may enhance the subjects covered in the lectures and course notes/slides and which may be tested on both 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 **Thursday, October 27, 2016** 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 (by Thursday, Nov. 3, 2016 at 4:00pm)** following the midterm exam date. The note must indicate clearly the reason for being unable to write the midterm exam on **Wednesday, Oct. 25, 2016**. Following submission of a valid note, students will have the option to write a **"Deferred"** exam (***scheduled during the week of November 7, 2016***) or have the final exam count for **100%*** of their grade (*97% if they have registered to the Connect assignments). Students must email the course secretary at undergrad1.physiology@mail.mcgill.ca by **Wednesday, Nov. 9, 2016 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. This site also hosts a Discussion Board, monitored by peer undergraduate student course assistants (USCAs) consisting of knowledgeable senior students for discussion of course material. USCAs also write and post practice questions for each lecture on *myCourses*. Information such as grades will also be retrievable in a secure confidential fashion at this site. Please also use your McGill email address for any correspondence with course faculty and staff and check this email regularly as you may receive correspondence from the course list server at this address.

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 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. Due to technical problems that may arise we cannot guarantee that these recordings will be available for all lectures or tutorials.

Tutorials

The course lecturers will hold tutorial sessions according to the attached schedule. Verify *myCourses* for possible revisions. In addition, USCAs will be available to help facilitate learning. The list of USCAs and their contact information will be posted on *myCourses*.

You are also welcome to see lecturers individually in their offices. Please telephone or e-mail the lecturer you wish to see to make an appointment.

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

Course Secretary

Ms. Vanessa Brunori	McIntyre - Room 1021	514-398-4315	undergrad1.physiology@mcgill.ca
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