

MAMMALIAN PHYSIOLOGY 1 PHGY 209 Sections 001 & 002

LECTURE SCHEDULE 2019-2020

Section 001→Monday, Wednesday, and Friday from 9:35 a.m. -10:25 a.m.
Stephen Leacock Building, Room 132

Section 002→Monday, Wednesday and Friday from 12:35 p.m. - 1:25 p.m.
Adams Building, FDA Auditorium, 3450 rue University

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

2019	Monday	Wednesday	Friday	TOPIC	LECTURER
Sept.	LD	4	6	Introduction & Body Fluids	Dr. Vollrath (3)
	9				
		11	13	Transport Mechanisms	Dr. Shrier (2)
	16 23	18 25	20	Blood	Dr. Wechsler (5)
Oct.			27	Immunology	Dr. Vollrath (5)
	RH	2	4		
	7	YK	11		
	TG	16	18	Nerve/Synapse	Dr. Ragsdale (6)
Nov.	21	MT			
			25		
	28	30			
Dec.			1	CNS – Sensory/Motor and CNS – Cognitive	Dr. Erik Cook (10)
	4	6	8		
	11	13	15		
	18	20	22		
Dec.	25	27	29	Muscle/Autonomic Nervous System	Dr. Ragsdale (5)
	2	(Tuesday) 3			

LD: Labour Day (Monday, Sept. 2)

NO LECTURES will be held on the following dates: **RH:** Rosh Hashanah (Monday, Sept. 31); **YK:** Yom Kippur (Wednesday, October 9 **TG:** Thanksgiving (Monday, Oct. 14); **MT:** Midterm Prep (Wednesday Oct. 23)

Midterm Exam: Wednesday, October 23, 2019 from 7:00 - 8:30 p.m. (location to be announced)

Material: Body Fluids, Transport Mechanisms, Blood, Immunology

Mark Distribution: Midterm 25%, Final 70% Online Quizzes 5%

Final Exam: During final exam period in December. Time and location determined by the Faculty of Science.

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TUTORIAL SESSIONS 2019

LECTURERS	DATE	TIME	LOCATION
Drs. Vollrath & Shrier Body Fluids and Transport Mechanisms	Tuesday, Oct. 1	5:30 – 6:30 p.m.	MCMED 522
Dr. Wechsler Blood	Thursday, Oct. 10	5:30 – 6:30 p.m.	MCMED 522
Dr. Vollrath Immunology	Wednesday, Oct 16	5:30 – 6:30 p.m.	MCMED 1034 (Not recorded)
Dr. Cook CNS Sensory/Motor/Cognitive	Tuesday, Nov. 26	5:30 – 7:00 p.m.	MCMED 522
Dr. Ragsdale Muscle/Autonomic Nervous System	Tuesday, Dec. 3	5:30 – 7:00 p.m.	MCMED 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.

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REQUIRED TEXTBOOK READINGS:

*Vander's Human Physiology: The Mechanisms of Body Function,
13th, 14th or 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. M. Vollrath	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. 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)
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

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

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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**), 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 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 2019/2020 academic year, PHGY 209 lectures will be held **on Mondays, Wednesdays, and Fridays. Section 001** lectures will be held from **9:35 to 10:25 am** in the **Stephen Leacock Building (855 Sherbrooke Street West) in Room 132. Section 002** will be held from **12:35 am to 1:25 pm** in the **Adams Building, FDA Auditorium (3450 rue University).**

Text Book

Students are responsible for the assigned readings in the course textbook: ***Vander's Human Physiology – The Mechanisms of Body Function***, eds. Widmaier, Raff, and Strang, 15th edition (2018). It is available for purchase in the University Bookstore at 3544 Parc Avenue. The 13th or 14th editions are also suitable.

Course Evaluation

Quizzes: Online quizzes for each section of the course will be accessible on *myCourses*. Quizzes will count for 5% of the course grade. Quizzes will be available starting at 5 p.m. on the date of the last lecture of each section and open for completion for 5 days. *Example:* Quiz 1 (Body Fluids and Transport) will be available from 5 p.m. on September 13 until 5 p.m. on September 18. No sick notes will be accepted or extensions offered for quiz non-completion. Rather, of the six quizzes, the one with the lowest mark will be dropped.

Midterm Examination: The midterm will be held in the evening of **Wednesday, October 23, 2019** 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 and count for 25% of the course grade.

Final Exam: The final will be held during the final exam period at a date and location determined by the McGill exams office. The final exam will be **cumulative** and count for 70% of the course grade.

Format: The format of the exams and quizzes will be **Multiple Choice Questions**. There will be 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 Wednesday, October 30, 2019 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. 23, 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 **95%*** of their grade. Students must email the course secretary at undergrad1.physiology@mcgill.ca by **Wednesday, Nov. 6, 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 **70%***

Supplemental/Deferred Final Exams: 70%/95%

The exams are held in April and are organized by the Faculty of Science:

<https://www.mcgill.ca/science/student/general/exams>

See: <https://www.mcgill.ca/exams/dates/supdefer>

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

PHGY 209 Lecturers

Office

Telephone

E-mail

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. 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. Jennifer Rondeau	McIntyre - Room 1021	514-398-4315	undergrad1.physiology@mcgill.ca
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