

PHGY 209 – MAMMALIAN PHYSIOLOGY 1
Fall 2024

Section 001: Monday, Wednesday, and Friday from 9:35 – 10:25 AM – MCMED 522
Section 002: Monday, Wednesday, and Friday from 12:35 – 1:25 PM – ADAMS AUDITORIUM

Course Coordinators
 Drs. Melissa Vollrath and Alvin Shrier

Monday	Wednesday	Friday	TOPIC	LECTURER
	August 28	30	Course Overview, Homeostasis & Body Fluids	Dr. Vollrath 1 + 2 lectures
September 2 Labour Day - No Class	4			
		6	Transport Mechanisms	Dr. Shrier 2 lectures
9				
	11	13	Blood	Dr. Vollrath 5 lectures
16	18	20		
23	25	27		
30	October 2		Immunology	Dr. Vollrath 5 lectures
		4		
7	9	11	Nerve/Synapse	Dr. Ragsdale 6 lectures
14 Thanksgiving - No Class	16 Fall Break - No Class	18 Fall Break - No Class		
21	23			
		25		
28	30	November 1	CNS/Sensory and Cognitive/Motor	Dr. Cook 6 + 5 lectures
4	6	8		
11	13	15		
18				
	20	22	Muscle/Autonomic Nervous System	Dr. Ragsdale 7 lectures
25				
	27	29		
December 2	4			

NO LECTURES will be held on the following dates:

Labor Day (Sept. 2), Thanksgiving (Oct. 14), Fall Reading Week (Oct. 14 – 18)

Midterm Exam: **Tuesday, October 8, 7 – 8:30 PM** (Locations TBA)

Material: Body Fluids, Transport Mechanisms, Blood, Immunology

Final Exam: **Held during the final exam period in December** (Dec. 6 – 20)

Time and date determined by the Faculty of Science.

Material: Cumulative, with emphasis on CNS sections: Nerve/Synapse, Cognitive/Motor, Sensory, and Muscle/ANS

Mark Distribution: Midterm 30%, Final 60%, Quizzes 10%

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End-of-Section Quizzes

LECTURER	TOPIC	QUIZ OPENS	QUIZ Due
Dr. Vollrath	Body Fluids	Sept. 9, 5 PM	Sept. 14, 5 PM
Dr. Shrier	Transport Mechanisms	Sept. 9, 5 PM	Sept. 14, 5 PM
Dr. Vollrath	Blood	Sept. 20, 5 PM	Sept. 25, 5 PM
Dr. Vollrath	Immunology	Oct. 2, 5 PM	Oct. 7, 5 PM
Dr. Ragsdale	Nerve/Synapse	Oct. 23 PM	Oct. 28, 5 PM
Dr. Cook	CNS/Sensory	Nov. 6, 5 PM	Nov. 11, 5 PM
Dr. Cook	Cognitive/Motor	Nov. 18, 5 PM	Nov. 23, 5 PM
Dr. Ragsdale	Muscle & Autonomic Nervous System	Dec. 4, 5 PM	Dec. 9, 5 PM

Instructor-Led Tutorials

LECTURERS and TOPICS	DATE	TIME	Location
Dr. Vollrath Body Fluids	Thursday, Sept. 5	5:30 – 6:30 PM	McMed 522
Dr. Shrier Transport Mechanisms	Thursday, Sept. 12	5:30 – 6:30 PM	McMed 522
Dr. Vollrath Blood	Thursday, Sept. 26	5:30 – 6:30 PM	McMed 522
Dr. Vollrath Immunology	Thursday, Oct. 3	5:30 – 6:30 PM	McMed 522
Dr. Ragsdale Nerve/Synapse	Wednesday, Nov. 6	5:30 – 6:30 PM	McMed 522
Dr. Cook CNS Sensory/Motor/Cognitive	Wednesday, Nov. 27	5:30 – 7:00 PM	McMed 522
Dr. Ragsdale Muscle/Autonomic Nervous System	Wednesday, Dec. 4	5:30 – 6:30 PM	McMed 522

Note: No new material will be introduced during tutorials. These sessions are intended for clarification and reinforcement of the subject matter covered in the lectures and readings. The tutorial sections are open to students from Sections 1 and 2.

When 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 professors. Students studying in English for the first time are especially encouraged to attend tutorial sessions.

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General Information

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

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 (held in the Fall) followed by 210 (held in the Winter); it is permissible, but more challenging, to take them in the reverse order.

PHGY 209 and 210 are required courses for Physiology students and are prerequisites for upper-level Physiology courses. They are required or complementary courses for students in other biomedical-science departments in the Faculty of Science, as well as professional programs in Physical Therapy, Occupational Therapy, and in Kinesiology.

The prerequisites are CEGEP or college courses in Biology, Chemistry, and Physics, with Organic Chemistry as pre- or co-requisites.

Physiology and Pharmacology students take the laboratory courses PHGY 212 and 213 concurrently with PHGY 209 and 210, respectively. Due to space limitations, only students in these programs are allowed to register.

Supplementary Textbook

Testable material for the exams and quizzes will come directly from the lecture material, unless stated by the instructor. Supplementary readings and background information can be found in the free online textbook:

<https://openstax.org/details/books/anatomy-and-physiology-2e/> ISBN: 978-1-951693-42-8

Course Evaluation

End-of-Section Quizzes: Online quizzes for each section of the course will be accessible on *myCourses* via the Quiz tab. The quizzes will count for 10% of the total course grade. **Quizzes will be available starting at 5 PM on the last day of each section (see course syllabus and/or calendar on myCourses) and be open for completion for 5 days.** Example: Quiz 1 (Body Fluids and Transport) will be available from 5 PM on September 9 until 5 PM on Sept. 14. **Once the quiz is started you will have 1 hour to complete it.** No sick notes will be accepted, and no extensions will be offered for quiz non-completion. Rather, of the seven quizzes, the one quiz with the lowest mark will be dropped.

Midterm Exam: The midterm will be held on Tuesday, October 8 from 7 – 8:30 PM. Exam location will be posted on *myCourses* the morning of the exam. Topics include Body Fluids, Transport Mechanisms, Blood, and Immunology. The midterm exam counts for 30% of the total course grade.

Students, who for serious reasons (e.g., illness or family affliction), cannot write the midterm, are required to submit supporting documentation to undergrad1.physiology@mcgill.ca within **ONE WEEK (by Tuesday, October 15 at 5 PM)** of the midterm exam. The note must clearly indicate the reason for being unable to write the midterm exam on its scheduled date. **If no acceptable documentation is provided by the Oct. 15 deadline, the midterm exam grade will be zero.** Following submission of a valid note, students will write a “Deferred” midterm (*held on Wednesday, Oct. 23 from 7-8:30 PM*). **Only students with a validated reason for not being able to write the deferred exam** will be allowed to shift the weight of the midterm exam to the weight of the final exam.

Final Exam: Held during the final exam period, date determined by the McGill exams office. The final exam will be **cumulative** with emphasis on Nerve/Synapse, CNS-Sensory/Motor, CNS–Cognitive and Muscle/ANS. The final exam counts for 60% of the total course grade.

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Exam Format: The quizzes and exams will consist of **multiple-choice questions**. There will be 5 –10 questions on each quiz, 35 questions on the midterm exam and 70 questions on the final exam.

Supplemental/Deferred Final Exams: 90%/60%: In the case of a supplemental exam, the additional 15% will come from SmartBook homework and end-of-section quizzes. In the case of a deferred exam, the additional 45% of the grade will come from the SmartBook homework, end-of-sections quizzes and midterm exam. These exams are held in April and are organized by the Faculty of Science: <https://www.mcgill.ca/exams/dates/supdefer>

Grading: The Department of Physiology will **NOT** revise/upgrade marks except on sound academic grounds. Decimal points will be “rounded” as follows: if the final aggregate mark is 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+). Marks are **FINAL and NON-negotiable**.

Course Management: PHGY 209 is a *myCourses* managed course. Course 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. Information such as grades will also be retrievable in a secure confidential manner at this site.

Learning Aids: To facilitate learning, the visual material presented in class will be available on *myCourses*. All lectures and tutorials will be recorded and may be accessed on *myCourses**. **Unless technical issues arise.*

Tutorials: The course lecturers will hold tutorial sessions as per the schedule, above.

USCAs/TEAM members: Peer Undergraduate Student Course Assistants (USCAs)/ Tomlinson Engagement Award for Mentoring (TEAM) members are available to help facilitate learning. These knowledgeable senior students will monitor the discussion forum on *myCourses*, respond to student emails, attend lectures, write practice questions and hold midterm and final exam tutorials. A list of USCAs and their email addresses can be found on *myCourses*.

Course Lecturers – Office Hours: When possible, course lecturers will be available at the end of each class to answer your questions. In lieu of regularly scheduled office hours, you are welcome to contact professors via email to set up individual meetings.

Course Secretary: The course secretary, Mr. Alex Piciacchia, is the first point of contact for questions related to course logistics. Topics he handles include accessing course materials on *myCourses* (i.e., SmartBook, lecture recordings), questions about the course syllabus and exam deferrals.

Lecturers

Dr. Melissa Vollrath
Dr. Alvin Shrier
Dr. David Ragsdale
Dr. Erik Cook

email

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Course Secretary

Mr. Alex Piciacchia

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

Note 3: © Instructor generated course materials (e.g., recorded lectures, slide/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.
