



University
of Regina



Faculty of
Science

BIOL 110-001, -002, -003
Human Anatomy and Physiology I
Fall 2025

Territorial Acknowledgement: The University of Regina is situated on the territories of the nêhiyawak, Anihšînāpēk, Dakota, Lakota, and Nakoda, and the homeland of the Métis/Michif Nation. The Regina campus is on Treaty 4 lands, and Saskatoon classes are on Treaty 6 lands.

Instructor:

Dr. Carly Graham, Assistant Professor

Department of Biology, University of Regina

Email: Carly.Graham@uregina.ca (please **do not** use URCourses mail or messaging)

Please send all course emails to biol110@uregina.ca

Office Hours:

Wednesday – 9:00-10:00AM

Thursday – 1:00-2:00PM

Office hours will take place on Zoom with the link on URCourses.

If these times do not fit your schedule, send an email (biol110@uregina.ca) to set up an alternate time to meet.

Lectures: The class will be delivered online (using Zoom) on Tuesdays from 1:00-3:45PM. Each week, pre-recorded course material will be available preceding the lecture on UR Courses. Students are strongly encouraged to watch these recordings before the Tues 1PM live lecture. The live lecture will focus more on review of the material and offer practice questions and activities to engage with the material, so it is valuable to arrive at the live lecture with a familiarity of the content. Live lectures will be recorded and will be made available on URCourses. Weekly textbook reading assignments will be available on URCourses. These are meant to supplement your understanding of the material. Quizzes and exam content will focus primarily on the subject matter covered in the recordings and lectures, but textbook content may also be tested.

Course Description: An introduction to the anatomy and normal functioning of the human body. The course takes a holistic approach to understanding and integrating anatomy and physiology. This course will cover the following topics: cellular and tissue level of organization; integument; bone tissue and skeleton; muscle tissue and muscular system; nervous tissue and nervous systems.

Course Objectives:

Upon successful completion of this course, students should be able to:

- Use anatomical terminology, identify body planes and sections, and explain homeostasis as a key principle of anatomy and physiology.
- Compare and contrast passive and active membrane transport processes and explain their roles in maintaining homeostasis.
- Identify the structural characteristics, functions, and locations of different types of epithelial tissue.
- Describe the major types of connective tissue, their cellular and extracellular components, and their function.
- Identify the structure and functions of the integument and its accessories and their role in protection, sensation, and homeostasis.
- Explain how cells, tissues, and the integument support body structure and function.
- Explain bone structure, growth, and remodeling.
- Identify major bones of the axial and appendicular skeleton.
- Identify the major joints of the body, classify them by structure and function, and understand their articulations and movements.
- Describe muscle tissue structure and physiology of contraction.
- Identify major skeletal muscles and their roles in movement, posture, and clinical assessment.
- Explain the organization and function of nervous tissue.
- Describe the structure and function of the brain, cranial nerves, spinal cord, and peripheral nerves.
- Differentiate the somatic and autonomic nervous systems, including their structure and roles in regulating body functions.
- Describe the structure and function of the general and special senses.
- Integrate knowledge of anatomy and physiology to understand health, disease, and nursing practice.

Textbook: O’Laughlin, V.D., T. S. Bidle, McKinley, M.P. 2025. Anatomy and Physiology: An Integrative Approach. Evergreen Release. McGraw Hill.

A new edition of the textbook is required, along with Connect Online Access. Online quizzes will be administered through the McGraw Hill Connect site. The Anatomy and Physiology Revealed will provide practice questions that will help your studying. Go to: <https://connect.mheducation.com/class/c-graham-biol-110-fall-2025-1>

Grading:

Online Quizzes (top 10/11)	30%
*Midterm Exam #1 (Oct 7 2:30-3:30PM)	15%
*Midterm Exam #2 (Nov 4 2:30-3:30PM)	15%
*Final Exam (Dec 9 9:00AM-12:00PM)	<u>40%</u>
	100%

* required course component

Important Note – The SCBScN program requires a **minimum final grade of $\geq 60\%$ in the course.**

Online Quizzes (30%)

Quizzes will be posted weekly on McGraw Hill's Connect site and will only test the material covered in that week's lecture. There are a total of 11 quizzes and the top 10 marks will be used toward your final grade. You must complete these assignments before the deadline. These will be noted clearly in the title of the assignment and are included in the schedule below. No extensions or makeup assignments will be awarded under any circumstances.

Midterm Exams (30%)

The midterm exams for this course will take place in-person. **There are no make-up midterm exams.**

Final Exam (40%)

The final exam for this course will take place in-person.

Any grades posted on URCourses are not final grades. These are unofficial grades and are subject to review and approval.

Grade Adjustments and Re-evaluations:

In fairness to everyone in the class, the values of the evaluation components will not be adjusted and there are no extra assignments or quizzes to make up grades for an individual student.

If you are not satisfied with grading, you may have it re-evaluated. Requests for re-evaluation cannot be made until 24 hours after your graded work has been returned to you, or your grade has been posted. To be eligible for re-evaluation, written exams must be completed in pen. Note that this policy does not apply to simple addition errors, which should be brought to the attention of the course instructor as soon as possible after the assignment or midterm has been returned. The re-evaluation must be requested within 20 business days of the date on which the graded work was originally handed back or posted. Procedure for formal grade appeals can be found in the [Undergraduate academic calendar](#).

Alternate Exam Locations:

If you reside in a location that precludes you from writing a final exam in-person at the scheduled exam location, you may complete and submit an [Application for Alternate Exam Location Form](#). The form is to be emailed to invigilator.approval@uregina.ca no later than the 50% refund deadline for the course. Applications submitted after that date are not considered, and you will be required to write the original sitting of the exam at the published exam location or withdraw from the course.

For information about approved alternate exam locations, consult:

<https://www.uregina.ca/student/registrar/resources-for-students/approved-invigilators.html>.

Permission to write at an alternate location will neither be granted to students registered for any in-person class in the same term as an online or remote class section, nor when personal or leisure travel arrangements are made by you or others on your behalf.

The University retains the right to refuse a proposed alternate final exam location request.

Final exam deferrals can only be granted by the Associate Dean of your Faculty.

Academic integrity: Academic integrity requires students be honest. Assignments and exams are to help students learn; grades show how fully this goal is attained. Thus, all work and grades should result from a student's own understanding and effort.

Acts of academic misconduct violate academic integrity and are considered serious offences by the University. Examples include, but are not limited to, cheating on tests or exams, plagiarizing, copying from others, falsifying lab results, etc. Instances of academic misconduct will be reported to the Associate Dean Academic for investigation. Full details are provided in the [Undergraduate academic calendar](#). Students are encouraged to understand your obligations as a student, as well as your rights.

In this course, you are not permitted to use generative artificial intelligence (AI) programs in your assignments or exams. Any work suspected of using generative AI will be reported for investigation of academic misconduct.

Accommodations: The Centre for Student Accessibility upholds the University's commitment to a diverse and inclusive learning environment by providing services and supports for students based on disability, religion, family status, and gender identity. Students who require these services are encouraged to contact the Centre for Student Accessibility to discuss the possibility of academic accommodations and other supports as early as possible. For further information, please email accessibility@uregina.ca.

Communication: You are welcome to contact me via Zoom or the course email with questions about course administration or content. Please use your uregina email address, and keep your emails formal, short, and to the point.

How to use the Biology 110 UR Courses Website:

Go to <https://www.uregina.ca/urcourses/>

Type in your UserName and Password

Click the link: **BIOL 110: Human Anatomy and Physiology**

Lecture Schedule: All dates and topics are subject to change, as necessitated by illness, closures, or other unforeseen circumstances.

Week	Date of Lecture	Lecture Topic Text: A&P (McKinley et al.)	Assessment
1	Sept 2	CH1: The Sciences of Anatomy and Physiology CH4: Biology of the Cell	Quiz 1 (due Sept 9)
2	Sept 9	CH4: Biology of the Cell CH5: Tissue Organization	Quiz 2 (due Sept 16)
3	Sept 16	CH6: Integumentary System CH7: Skeletal System: Bone Structure	Quiz 3 (due Sept 23)
4	Sept 23	CH8: Skeletal System: Axial & Appendicular Skeleton	Quiz 4 (due Oct 7)
5	Sept 30	No class – Truth and Reconciliation	
6	Oct 7	CH9: Skeletal System: Articulations	Midterm 1 – 2:30-3:30PM Quiz 5 Connect (due Oct 14)
7	Oct 14	CH10: Muscle Tissue	Quiz 6 (due Oct 21)
8	Oct 21	CH11: Muscular System: Axial & Appendicular Muscles	Quiz 7 (due Oct 28)
9	Oct 28	CH12: Nervous System: Nervous Tissue	Quiz 8 (due Nov 4)
10	Nov 4	CH13: Nervous System: Brain and Cranial Nerves	Midterm 2 – 2:30-3:30PM Quiz 9 Connect (due Nov 18)
11	Nov 11	No class – Remembrance Day/Fall Break	
12	Nov 18	CH14: Nervous System: Spinal Cord & Nerves	Quiz 10 (due Nov 25)
13	Nov 25	CH15: Nervous System: The Autonomic Nervous System	Quiz 11 (due Dec 2)
14	Dec 2	CH16: Nervous System: Senses	
	Dec 9		Final Exam – 9:00AM-12:00PM