BIOL 111-001, -003
Human Anatomy and Physiology II
Winter 2026

Territorial Acknowledgement:
The University of Regina is situated on the territories of the nêhiyawak, Anihšināpēk, 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
Office: LB252
Email: Carly.Graham@uregina.ca (please **do not** use URCourses mail or messaging)

Office Hours:
Tuesdays – 12:30-1:30PM
Thursdays – 12:30-1:30PM
Location – Carly's office (LB252)

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

Lectures:
The class will be delivered in person on Mondays from 1:30-4:15PM in the Education Auditorium (EA 106). Each week, pre-recorded course material will be available preceding the lecture on URCourses. Students are strongly encouraged to watch these recordings before the 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. 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: A continuation of BIOL 110. Further study of the anatomy and normal functioning of the human body, integrating anatomy and physiology. ***Prerequisite: BIOL 110*** *Note: Restricted to Nursing students only* *Note: Students will not receive credit for both KIN 261 and BIOL 110; Further, students who have credit for KIN 261 and KIN 262, or BIOL 110 and BIOL 111, cannot take for credit KIN 260, KIN 267, or KIN 268.*

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

- Analyze the structure and function of the cardiovascular system, including blood composition, heart anatomy and physiology, vessel characteristics, and explain how these components work together to maintain circulation and homeostasis throughout the body.
- Evaluate the anatomical structures and physiological processes of the respiratory system, including ventilation mechanisms, gas exchange, and the neural and chemical regulation of breathing.
- Describe the structure and function of the lymphatic system and explain its role in fluid balance and immune defense.
- Compare and contrast innate and adaptive immunity and explain the cellular and molecular mechanisms by which the body defends against pathogens and maintains immunological memory.
- Analyze the anatomy of the urinary system and explain the physiological processes of urine formation and the role of the kidneys in regulating fluid, electrolyte, and acid-base balance.
- Explain the principles of fluid distribution and movement in the body, electrolyte regulation, and the mechanisms that maintain acid-base homeostasis.
- Evaluate the structure and function of the endocrine system, including hormone mechanisms of action, feedback regulation, and the physiological effects of major hormones on target tissues.
- Analyze the anatomical structures and physiological processes of the digestive system, including mechanical and chemical digestion, nutrient absorption, and regulatory mechanisms.
- Describe the anatomy and physiology of the male and female reproductive systems, explain the processes of gametogenesis and fertilization, and analyze the stages of human development from conception through birth.

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-winter-2026.

Grading:

Online Quizzes	20%
*Midterm #1	20%
*Midterm #2	20%
*Final Exam	40%
	100%

* required course component
Important Note – The SCBScN program requires a **minimum final grade of ≥ 60% in the course**.

Online Quizzes (20%)
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 12 quizzes and the top 11 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 (40%)
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 is will take place in-person. The final exam is cumulative and covers the entire course.

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 an 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 an alternate final exam location request.

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

Attendance policy:
Attendance at lectures is expected. Note that if a student engages in disruptive behaviour such as watching videos during lecture, speaking throughout class, etc. that disrupts the learning of others, they can be asked to leave the class.

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 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 111 UR Courses Website:
Go to https://www.uregina.ca/urcourses/
Type in your UserName and Password
Click the link: **BIOL 111: Human Anatomy and Physiology II – Winter 2026**

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

Week	Date of Lecture	Topic	Textbook	Assessment
1	Jan 12	CH18: Cardiovascular System—Blood	Ch. 18.1-18.4	Quiz 1 (due Jan. 19)
2	Jan 19	CH19: Cardiovascular System—Heart	Ch. 19.1-19.9	Quiz 2 (due Jan. 26)
3	Jan 26	CH20: Cardiovascular System—Blood Vessels & Circulation	Ch. 20.1-20.5	Quiz 3 (due Feb 2)
4	Feb 2	CH20: Cardiovascular System—Blood Vessels & Circulation	Ch. 20.6-20.11	Quiz 4 (due Feb 9)
5	Feb 9	CH23: Respiratory System 1 (recorded lecture)	Ch. 23.1-23.3	**Midterm 1 – 1:30-2:30PM** Quiz 5 (due Feb 23)
	Feb 16	**No class – Winter Break**		
6	Feb 23	CH23: Respiratory System 2	Ch. 23.4-23.8	Quiz 6 (due Mar 2)
7	Mar 2	CH21: Lymphatic System	Ch. 21.2-21.4	Quiz 7 (due Mar 9)
		CH22: Immune System	Ch. 22.1-22.9	
8	Mar 9	CH24: Urinary System	Ch. 24.1-24.8	Quiz 8 (due Mar 16)
9	Mar 16	CH25: Fluid, Electrolyte, & Acid-Base Balance	Ch. 25.1-25.6	Quiz 9 (due Mar 23)
10	Mar 23	CH17: Endocrine System (recorded lecture)	Ch. 17.1-17.11	**Midterm 2 – 1:30-2:30PM** Quiz 10 (due Mar 30)
11	Mar 30	CH26: Digestive System 1	Ch. 26.1-26.3c	Quiz 11 (due Apr 6)
12	Apr 6	CH26: Digestive System 2	Ch. 26.3c-26.4	Quiz 12 (due Apr 13)
		CH28: Reproductive System 1	Ch. 28.1-28.3a,c,e-g, 28.4	
13	Apr 13	CH28: Reproductive System 2	Ch. 28.3b,d	No quiz
		CH29: Development & Pregnancy	Ch. 29.1-29.3, 29.6, 29.8	
	Apr 20			**Final Exam - 9:00AM-12:00PM**