

Course ID:	Course Title:	Winter 2024
MED 263	Human Anatomy and Physiology 2	Prerequisite: MED 261
		Credits: 3

Class Information		Instructor Information		Important Dates	
Delivery:	In Class	Instructor:	Dr. Damilola Adingupu	First Day of Class:	8 th Jan 2024
Days:	Tues, Thur	Email:	Ambrose email	Last Day to Add/Drop:	Jan. 21
Time:	9:45 – 11am	Phone:		Last Day to Withdraw:	March 28
Room:	A2210	Office:	A2160	Last Day to Apply for Coursework Extension:	April 2
Lab/Tutorial:	Mon (lab) A2151 2:45- 5:45pm	Office Hours:	By Appointment on Mon, Tue, Thur	Last Day of Class:	April 12
Final Exam:	Saturday 20 th April 9 – 12 pm A2210				

Important Dates and Information

For a list of all important dates and information regarding participating in classes at Ambrose University, please refer to the Academic Calendar at <https://ambrose.edu/academic-calendar> .

Course Description

A systems approach to human anatomy and physiology. The endocrine, cardiovascular, lymphatic, immune, respiratory, digestive, urinary and reproductive systems will be covered. Structure and function will be emphasized in both lecture and laboratory components. This is a continuation of MED 261.

Expected Learning Outcomes

By the end of the semester, students will be able to:

1. Understand the structure and function of the following human body systems: endocrine, cardiovascular, lymphatic, immune, respiratory, digestive, urinary, and reproductive.
2. Apply critical thinking to problem-solve issues related to health maintenance and disturbances in homeostasis.
3. Perform basic physiological experiments and anatomical dissections.

4. Develop a curiosity and wonder of the complexity and beauty of the human body and the enthusiasm to continue learning and questioning.
5. A strengthened research skill, as well as the ability to communicate scientific information effectively using oral presentations and written reports.

Textbooks

Required Textbook

Human Anatomy & Physiology (11th edition) by Elaine N. Marieb & Katja Hoehn, published by Pearson.

Required Digital Learning Resources:

- Sign up for **TopHat**. This is an in-class response system, you used this last semester and if you purchased for a year, your access will still be valid.
 - There will be in-lecture quizzes administered through TopHat that is worth 10% of your overall grade.

Course Schedule

Date	Lecture/ lab Schedule	Textbook Chapter
Tue 9 th Jan	Endocrine System (Physiology) Part 1	16
Thurs 11 th Jan	Endocrine System (Anatomy) Part 2	16
Mon 15 th Jan	Lab 1: Endocrine system and stress response (Formal lab report due 29 th Jan 2024)	
Tues 16 th Jan	Endocrine System (Anatomy) Part 3	16
Thurs 18 th Jan	Blood Part 1	17
Mon 22 nd Jan	Lab 2: Bloods morphology and grouping (Assignment due 8 th Feb)	
Tues 23 rd Jan	Blood Part 2	
Thurs 25 th Jan	Undergrad Program Day No Class	
Mon 29 th Jan	Lab 3: Seminar and quiz (Choose topic for Group Presentation)	
Tues 30 th Jan	Blood Part 3	
Thurs 1 st Feb	The cardiovascular system: The Heart Part 1	18
Mon 5 th Feb	Lab 4: Anatomy of the heart and blood vessels	
Tues 6 th Feb	The cardiovascular system: The Heart Part 2	
Thurs 8 th Feb	The cardiovascular system: Blood Vessels Part 1	19
Monday 12 th Feb	Midterm 1 (1.5 hours)	
Tues 13 th Feb	The cardiovascular system: Blood vessel/ Blood Pressure Part 2	
Thurs 15 th Feb	The Lymphatic System and Lymphoid Organs and Tissues	20
Mon 19 th Feb	Family Day No class	21
Tuesday 20 th Feb	Reading week, No Class	
Thurs 22 nd Feb	Reading week, No Class	
Mon 26 th Feb	Lab 5: Group Presentation. Lymphatic and immune system Seminar	
Tues 27 th Feb	The Immune System: Innate and Adaptive Body Defenses Part 1	
Thurs 29 th Feb	The Immune System: Innate and Adaptive Body Defenses Part 2	21
Mon 4 th March	Lab 6: Respiratory Lab 1 Fetal Pig Dissection	
Tues 5 th March	The Respiratory System Part 1	
Thurs 7 th March	The Respiratory System Part 2	22
Mon 11 th March	Lab 7: Respiratory Lab 2 (Lab report due 25 th March 2024)	22
Tues 12 th March	The Respiratory System Part 3	
Thurs 14 th March	The Digestive System Part 1	23
Mon 18 th March	Lab 8: Digestion Lab	
Tues 19 th March	Midterm 2	
Thurs 21 st March	The Digestive System Part 2	23
Mon 25 th March	Lab 9: Seminar on Digestive System	24
Tues 26 th March	Nutrition, Metabolism, and Energy Balance (Recorded Class)	
Thurs 28 th March	The Urinary System (Recorded Class)	25
Mon 1 st April	Easter Monday No Class	26
Tues 2 nd April	Fluid, Electrolyte, and Acid-Base Balance (Recorded Class)	
Thurs 4 th April	The Reproductive System: Male and Female	27
Mon 8 th April	Lab 10: Renal function	27

Tue 9 th April	The Reproductive System: Male and Female	
Thurs 11 th April	Review	

Requirements:

Assessment and Evaluation:

- Midterm 1 – 20%, Mon 12th Feb
 - Midterm 2 – 20%, Tues 19th March
 - Final Exam – 30%, Saturday 20th April 9 – 12 pm A2210
 - 3 lab-related assignment at 5% each: First assignment online/ in-person submission due Monday 29th Jan at 1159pm, Second assignment online/ in-person submission due Thursday 8th Feb at 1159pm, and Third assignment online/ in-person submission due 25th March - Total 15%
 - Oral presentation (In Lab Mon 26th Feb) – 5%
 - TopHat Quizzes and participation in discussion - 10%
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- Students are encouraged to read the corresponding chapter prior to attending lectures
 - Students are encouraged to generate their own notes according to their learning styles
 - Lecture materials, except fill-in slides, and assignments will be posted on Moodle
 - Final exam is *comprehensive* (*i.e.* cumulative)

Attendance:

Attendance at all lectures is strongly recommended, this will help ensure success on lab assignments, quizzes, and exams. Failure to attend classes will mean loss of up to 10% of overall grade, given the in-class quizzes and attendance score that will be allocated. Attendance is mandatory at all labs and tutorials. Lab assignments will not be accepted unless the lab has been attended or exceptions have been made with the instructor. An absence for an exam or quiz requires that a note be provided from a medical authority before the student may complete the test. If absences for an extended period occur the instructor should be notified.

Grade Summary:

The available letters for course grades are as follows:

Percent (%) to Letter Grade Conversion	Grade	Grade Point	Description
95.00% - 100%	A+	4.0	Excellent
87.00% - 94.99%	A	4.0	
80.00% - 86.99%	A-	3.7	
77.00% - 79.99%	B+	3.3	Good
73.00% - 76.99%	B	3.0	
70.00% - 72.99%	B-	2.7	
67.00% - 69.99%	C+	2.3	Satisfactory
63.00% - 66.99%	C	2.0	
60.00% - 62.99%	C-	1.7	
55.00% - 59.99%	D+	1.3	Minimal Pass
50.00% - 54.99%	D	1.0	
00.00% - 49.99%	F	0	
			Fail

Because of the nature of the Alpha 4.00 system, there can be no uniform University-wide conversion scale. The relationship between raw scores (e.g. percentages) and the resultant letter grade will depend on the nature of the course and the instructor's assessment of the level of each class, compared to similar classes taught previously.

Please note that final grades will be available on student registration system. Printed grade sheets are not mailed out.

Ambrose University Important Policies & Procedures:

Registration

Registration is the process of selecting and enrolling in classes for upcoming semesters. Only students who are registered will be permitted to attend class and receive a grade for the course. You are responsible for ensuring that the courses you take are appropriate for your program, that they do not have any scheduling conflicts, that they have the necessary prerequisites and that they meet all degree requirements.

Withdrawal From A Course

Prior to the Add/Drop deadline: through the student registration system whereby course(s) will be removed with no academic or financial penalty. After the Add/Drop deadline and until the Withdrawal deadline: through submission of the 'Withdrawal from Course' form whereby course(s) will remain on the permanent academic record/transcript with the symbol 'W'. (See ambrose.edu/registrar/request-forms.) Students who withdraw from more than 30 credits attempted at Ambrose University will be required to withdraw from their program. Students considering withdrawing from courses are encouraged to discuss with their Faculty Advisor and/or the Office of the Registrar questions relating to their withdrawal decision specifically relating to financial assistance, study permit requirements, prerequisites for subsequent courses, readmission, and/or graduation timeline. Students who do not formally withdraw from a course are still considered registered

in the course, even if they are no longer attending classes. In this case, students will be assigned a grade based on coursework completed as per the course syllabus and are responsible to pay the tuition and fees assessed for the course. Under extenuating circumstances, students may request from the Office of the Registrar a course(s) withdrawal after the Withdrawal deadline and until the last day of classes. Extenuating circumstances typically consider situations such as medical emergencies, compassionate grounds, or unforeseen conditions/situations beyond the students' control that arise after the start of the semester and are considered on a case-by-case basis. Supporting documentation from a physician or Registered Health Professional must accompany this request.

Coursework Extensions

Should a request for a time extension on coursework exceed the end of the term, a *Coursework Extension Application* must be completed and submitted to the Office of the Registrar. The extension (if granted) will be recorded on the student record. Extensions are granted at the discretion of the instructor and registrar. If granted, time extensions do not excuse you from a final examination where one has been scheduled for the course. More conditions apply.

Exam Scheduling

Students who find a conflict in their exam schedule must submit a *Revised Final Exam Time Application* to the Office of the Registrar by

the deadline noted in the Academic Calendar. Requests will be considered for the following reasons only: 1) the scheduled final examination slot conflicts with another exam; or 2) the scheduled final examination slot results in three consecutive examination periods. Travel is not considered a valid excuse for re-scheduling or missing a final exam.

Communication

Your Ambrose email account is the University's primary and official mode of communication with you. Information delivered to your Ambrose email is considered official notification. Ambrose University is not responsible for your failure to receive important information delivered to your Ambrose email.

Lecture Recording

The recording of lectures or any other classroom academic activity, other than an audio recording as an accommodation, is prohibited except at the discretion of the instructor. Any use other than that agreed upon with the instructor constitutes academic misconduct and may result in suspension or expulsion. Permission to allow a lecture recording is not a transfer of any copyrights, so such recordings may be used only for individual or group study with other students enrolled in the same class and may not be reproduced, transferred, distributed or displayed in any public or commercial manner. Student must destroy recordings in any, and all formats at the end of the semester in which they are enrolled in the class. All students recording lectures, must sign the Permission Form to audio record lectures which is available through the Office of the Registrar.

Standards of Behaviour in the Classroom Setting

Learning is an active and interactive process, a joint venture between student and instructor and between student and student. Some topics covered within a class may lead to strong reactions and opinions. It is important that Students understand that they are entitled to hold contradictory beliefs and that they should be encouraged to engage with these topics in a critical manner. Committing to this type of "active learning" significantly increases the learning experience for both teacher and student, and reflects the Christian imperative to pursue truth, which lies at the heart of the Ambrose educational experience. However, active discussion of controversial topics will be undertaken with respect and empathy, which are the foundations of civil discourse in the Classroom Setting. Primary responsibility for managing the classroom rests with the instructor. The instructor may direct a student to leave the class if the student engages in any behaviour that disrupts the classroom setting. If necessary, Ambrose security will be contacted to escort the student from class.

Academic Integrity

We are committed to fostering personal integrity and will not overlook breaches of integrity such as plagiarism and cheating. Academic dishonesty is taken seriously at Ambrose University as it undermines our academic standards and affects the integrity of each member of our learning community. Any attempt to obtain credit for academic work through fraudulent, deceptive, or dishonest means is academic dishonesty. Plagiarism involves presenting someone else's ideas, words, or work as one's own. Plagiarism is fraud and theft, but plagiarism can also occur by accident when a student fails or forgets to acknowledge to another person's ideas or words. Plagiarism and

cheating can result in a failing grade for an assignment, for the course, or immediate dismissal from the university. Students are expected to be familiar with the policies in the current Academic Calendar that deal with plagiarism, cheating, and the penalties and procedures for dealing with these matters. All cases of academic dishonesty are reported to the Academic Dean and become part of the student's permanent record.

Academic Policies

It is the responsibility of all students to become familiar with and adhere to academic policies as stated in the Academic Calendar. The academic calendar can be found at <https://ambrose.edu/academics/academic-calendar>

Privacy

Personal information (information about an individual that may be used to identify that individual) may be required as part of taking this class. Any information collected will only be used and disclosed for the purpose for which the collection was intended. For further information contact the Privacy Compliance Officer at privacy@ambrose.edu.

Academic Success and Supports

Accessibility Services

Academic accommodation is provided to Ambrose students with disabilities in accordance with the Alberta Human Rights Act and the Canadian Charter of Rights and Freedoms. Provision of academic accommodation does not lower the academic standards of the university nor remove the need for evaluation and the need to meet essential learning outcomes. Reasonable accommodations are tailored to the individual student, are flexible, and are determined by considering the barriers within the unique environment of a postsecondary institution. It can take time to organize academic accommodations and funding for disability-related services. Students with a disability who wish to have an academic accommodation are encouraged to contact Accessibility Services as early as possible to ensure appropriate planning for any needs that may include accommodations. Staff can then meet with students to determine areas to facilitate success, and if accommodations are required, ensure those accommodations are put in place by working with faculty.

Ambrose Writing Services

Ambrose Writing services provides academic support in the four foundational literacy skills—listening, speaking, reading, and writing. It also assists students with critical thinking and the research process. Throughout the academic year, students can meet with a writing tutor for personalized support, or they can attend a variety of workshops offered by Academic Success. These services are free to students enrolled at Ambrose University. Academic Success serves all students in all disciplines and at all levels, from history to biology and from theatre to theology. To learn more, please visit <https://ambrose.edu/sas/writing-services>

Ambrose Tutoring Services

Ambrose Tutoring Services provides support in specific disciplinary knowledge, especially in high-demand areas such as chemistry,

philosophy, math and statistics, and religious studies. These tutors also coach students in general study skills, including listening and note-taking. During the academic year, Ambrose Tutoring Services offers drop-in tutoring for courses with high demand; for other courses, students can book a one-to-one appointment with a tutor in their discipline. These services are free to students enrolled at Ambrose University. To learn more, please visit <https://ambrose.edu/tutoring>.

Mental Health Support

All of us need a support system. We encourage students to build mental health supports and to reach out when help is needed.

On Campus:

- Counselling Services: ambrose.edu/counselling
- For immediate crisis support, there are staff on campus who are trained in Suicide Intervention Skills and can help you access mental health support. See <https://ambrose.edu/student-life/crisissupport> for a list of staff members.
- For additional wellness resources go to the Ambrose wellness page: <https://ambrose.edu/wellness>

Off Campus:

- Distress Centre - 403-266-4357
- Alberta Mental Health Helpline - 1-877-303-2642 (Toll free)
- Sheldon Chumir Health Care Centre - 403-955-6200
- Emergency - 911

Sexual Violence Support

We are committed to supporting students who have experienced gender based sexual violence in the past or while at Ambrose. Many of the staff, faculty, and student leaders have received Sexual Violence Response to Disclosure training. We will support you and help you find the resources you need and you can access information about reporting. Information about the Sexual Violence policy and on and off campus supports can be found on our website– ambrose.edu/sexual-violence-response-and-awareness.

Off Campus:

- Alberta's Oneline for Sexual Violence - 1-866-403-8000 call or text
- Clinic: Sheldon Chumir Health Centre - 403-955-6200
- Calgary Communities Against Sexual Abuse - 403-237-5888
- Chat: www.calgarycasa.com

Note: Students are strongly advised to retain this syllabus for their records.