

Course ID:	Course Title:	Fall 2020
ZOO 261	Human Physiology I	Prerequisite: BIO 133
		Credits: 3

Class Information		Instructor Information		Important Dates	
Delivery:	In class	Instructor:	Dr. Michele Nawata	First day of classes:	Wed, Sept 9
Days:	Wed/Fri	Email:	michele.nawata@ambrose.edu	Last day to add/drop, or change to audit:	Sun, Sept 20
Time:	1:30 pm - 2:45 pm	Phone:	403-410-2000, ext. 6906	Last day to request revised final exam:	Mon, Nov 2
Room:	A2133 (lecture) A2151 (lab)	Office:	L2109	Last day to withdraw from course:	Fri, Nov 20
Lab/ Tutorial:	3 hours/week Fri 3:15 pm - 6:15 pm	Office Hours:	By appointment	Last day to apply for coursework extension:	Mon, Nov 23
Final Exam:	In class final			Last day of classes:	Mon, Dec 14

Course Description

The basic structure and function of body systems – including cellular physiology, as well as nerve, muscle, sensory, reproductive and endocrine systems.

Expected Learning Outcomes

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

- 1) Describe the biochemical and cellular mechanisms relevant to human physiology.
- 2) Describe in detail the functioning of the following human body systems: nervous, endocrine, muscular and reproductive.
- 3) Apply their understanding of human physiology to factual scenarios or case studies.

Textbooks

No textbook required.

Recommended reading:

Human Physiology, 14th edition (2016), by Stuart Fox. McGraw-Hill.

Vander's Human Physiology: The Mechanisms of Body Function, 15th edition (2019 or earlier), by Eric Widmaier, Hershel Raff, Kevin Strang. McGraw-Hill.

Tentative Course Schedule

Date	Lecture Schedule
September 9	Introduction/homeostasis
September 11	Tissues/chemical composition
September 16	Cell structure
September 18	Genetic control
September 23	Enzymes, energy, cell respiration
September 25	Cell metabolism, extracellular environment
September 30	Transport, membrane potential, signaling
October 2	Nervous system
October 7	No class (Deeper Life Conference)
October 9	Midterm I
October 14	Nervous system
October 16	Central nervous system
October 21	Central nervous system/ autonomic nervous system
October 23	Sensory physiology
October 28	Sensory physiology
October 30	Endocrine glands
November 4	Endocrine glands
November 6	Presentations
November 11	No class (reading week)
November 13	No class (reading week)
November 18	Review
November 20	Midterm II
November 25	Muscle
November 27	Muscle
December 2	Reproduction
December 4	Reproduction
December 9	Review
December 11	Final exam

Date	Tentative Lab Schedule
September 11	No lab
September 18	Scientific method/cells
September 25	Molecules/enzymes
October 2	Diffusion/osmosis/tonicity
October 9	Nervous system
October 16	CNS/sheep brain dissection
October 23	ANS/reflexes
October 30	Lab quiz
November 6	Special senses/sheep eye dissection
November 13	No lab (reading week)
November 20	Endocrine
November 27	Muscle
December 4	Reproduction
December 14	No lab

Evaluation

The lecture portion of this course will be evaluated by one presentation, two midterm exams and one in-class final exam. The final exam is not cumulative. The lab portion of this course will be evaluated by lab exercises, and one lab quiz.

Midterm I (25%)

Midterm II (25%)

Final exam (20%)

Presentation (10%)

Lab exercises, quiz (20%)

Presentation

This will be a short oral presentation (PowerPoint) with a formal write-up. Students will be given a choice of research topics. The formal report must be submitted electronically using Moodle in Word format. Turnitin will be used. This web-based tool compares your work with numerous sources to check for plagiarism. A report is provided to you on Moodle on the due date of the assignment. Please ensure your work is original by properly citing sources wherever appropriate. Further details will be provided in class.

Labs

Following the guidelines to prevent the spread of COVID-19, please adhere to these rules:

- Lab coats, safety goggles/safety glasses, masks, and gloves are **mandatory** and must be worn at **all times**.
- You **must** have your own **lab coat, safety eyewear, and mask**. Gloves will be provided.
- Please bring a pen to write with. No laptops, cell phones, or other electronic devices allowed.
- No food or drink.

Attendance

Exams, lab exercises and quiz will be based on material presented in the lectures. Therefore attendance at all lectures is strongly recommended. Attendance at all labs is **mandatory**. Lab exercises must be handed in during lab period. Any missed lab without a valid excuse cannot be made up.

Grade Summary

Percent (%) to Letter Grade Conversion	Grade	Grade Point	Description
92% - 100%	A+	4.0	Excellent
85% - 92%	A	4.0	
80% - 85%	A-	3.7	
77% - 80%	B+	3.3	Good
73% - 77%	B	3.0	
70% - 73%	B-	2.7	
67% - 70%	C+	2.3	Satisfactory
63% - 67%	C	2.0	
60% - 62%	C-	1.7	
55% - 60%	D+	1.3	Minimal Pass
50% - 55%	D	1.0	
0% - 50%	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.

Other

Please be familiar with and adhere to the Ambrose University Academic Policies (below) regarding **Electronic Etiquette** and **Academic Integrity**.

Ambrose University Academic Policies:

Communication

All students have received an Ambrose e-mail account upon registration. It is the student's responsibility to check this account regularly as the Ambrose email system will be the professor's instrument for notifying students of important matters (cancelled class sessions, extensions, requested appointments, etc.) between class sessions. If students do not wish to use their Ambrose accounts, they will need to forward all messages from the Ambrose account to another personal account.

Registration

During the **Registration Revision Period** students may enter a course without permission, change the designation of any class from credit to audit and /or voluntary withdraw from a course without financial or academic penalty or record. Courses should be added or dropped on the student portal by the deadline date; please consult the List of Important Dates. After that date, the original status remains and the student is responsible for related fees.

Students intending to withdraw from a course after the Registration Revision Period must apply to the Office of the Registrar by submitting a "Request to Withdraw from a Course" form or by sending an email to the Registrar's Office by the **Withdrawal Deadline**; please consult

the List of Important Dates on the my.ambrose.edu website. Students will not receive a tuition refund for courses from which they withdraw after the Registration Revision period. A grade of "W" will appear on their transcript.

Students wishing to withdraw from a course, but who fail to do so by the applicable date, will receive the grade earned in accordance with the course syllabus. A student obliged to withdraw from a course after the Withdrawal Deadline because of health or other reasons may apply to the Registrar for special consideration.

Exam Scheduling

Students, who find a conflict in their exam schedule must submit a Revised Examination Request form to the Registrar's Office by the deadline date; please consult the List of Important Dates. Requests will be considered for the following reasons only: 1) the scheduled final examination slot conflicts with another exam; 2) the student has three final exams within three consecutive exam time blocks; 3) the scheduled final exam slot conflicts with an exam at another institution; 4) extenuating circumstances. Travel is not considered a valid excuse for re-scheduling or missing a final exam.

Electronic Etiquette

Students are expected to treat their instructor, guest speakers, and fellow students with respect. It is disruptive to the learning goals of a course or seminar and disrespectful to fellow students and the instructor to use electronics for purposes unrelated to the course during a class session. Turn off all cell phones and other electronic devices during class. Laptops should be used for class-related purposes only. Do not use iPods, MP3 players, or headphones. Do not text, read, or send personal emails, go on Facebook or other social networks, search the internet, or play computer games during class. Some professors will not allow the use of any electronic devices in class. The professor has the right to disallow the student to use a laptop in future lectures and/or to ask a student to withdraw from the session if s/he does not comply with this policy. Repeat offenders will be directed to the Dean. If you are expecting communication due to an emergency, please speak with the professor before the class begins.

Academic Policies

It is the responsibility of all students to become familiar with and adhere to academic policies as stated in the Academic Calendar. 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.

Extensions

Although extensions to coursework in the semester are at the discretion of the instructor, students may not turn in coursework for evaluation after the last day of the scheduled final examination period unless they have received permission for a course Extension from the Registrar's Office. Requests for course extensions or alternative examination time must be submitted to the Registrar's Office by the deadline date; please consult the List of Important Dates. Course extensions are only granted for serious issues that arise "due to circumstances beyond the student's control."

Appeal of Grade

An appeal for change of grade on any course work must be made to the course instructor within one week of receiving notification of the grade. An appeal for change of final grade must be submitted to the Registrar's Office in writing and providing the basis for appeal within 30 days of receiving notification of the final grade, providing the basis for appeal. A review fee of \$50.00 must accompany the appeal. If the appeal is sustained, the fee will be refunded.

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.

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
- Peer Supportive Listening: One-to-one support in Student Life office. Hours posted at ambrose.edu/wellness.
- For immediate crisis support, there are staff on campus who are trained in Suicide Intervention and Mental Health First Aid. See ambrose.edu/crisissupport for a list of staff members.

Off Campus:

- Distress Centre - 403-266-4357
- Sheldon Chumir Health Care Centre - 403-955-6200
- Emergency - 911

Sexual Violence Support

All staff, faculty, and Residence student leaders have received *Sexual Violence Response to Disclosure* training. We will support you and help you find the resources you need. There is a website with on and off campus supports – ambrose.edu/sexual-violence-response-and-awareness.

Off Campus:

- Clinic: Sheldon Chumir Health Centre - 403-955-6200
- Calgary Communities Against Sexual Abuse - 403-237-5888

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