

Course ID:	Course Title:	Fall 2021
KIN 323	Integrative Physiology	Prerequisite: ZOO 261, 263
		Credits: 3

Class Information		Instructor Information		Important Dates	
Delivery:	In Class	Instructor:	Michele Nawata, Ph.D	First Day of Classes:	September 8, 2021
Days:	Tue/Thu	Email:	michele.nawata@ambrose.edu	Last Day to Add/Drop:	September 19, 2021
Time:	5:00 pm – 6:15 pm	Phone:	403-410-2000, ext. 6906	Last Day to Withdraw:	November 22, 2021
Room:	A2210	Office:	L2109	Last Day to Apply for Extension:	November 23, 2021
Lab/Tutorial:	N/A	Office Hours:	By appointment	Last Day of Classes:	December 13, 2021
Final Exam:	Thursday, December 16 6:30 pm – 9:30 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

This advanced physiology course will enhance previous knowledge on body systems by discussing how different body systems interact with each other – including cardio-pulmonary and cardio-renal interactions, as well the integrated body effects of stress, exercise, growth, and disease.

Expected Learning Outcomes

Upon successful completion of this course, students should:

- 1) Be able to describe the interactions and integration of functions at the subcellular, cellular, organ, and whole organism levels.
- 2) Understand how separate systems interact to produce integrated physiological responses to challenges such as stress, environment, and disease.
- 3) Be able to critique and discuss research papers related to integrative physiology.
- 4) Be able to apply critical thinking to analyze current topics and case studies related to health and disease.

Textbook

A textbook is not required for this course. Supplemental material will be posted on Moodle.

Tentative Lecture Schedule

Date	Lecture Schedule (subject to change)
September 9	Introduction/Cells
September 14	Ischemic-reperfusion injury
September 16	Cell death
September 21	Subcellular alterations
September 23	Cellular adaptations
September 28	Fluids, electrolytes, acid-base
September 30	Hemodynamics
October 5	Immunopathology
October 7	Inflammation
October 12	Midterm I
October 14	Inflammation/Healing
October 19	Environment/Toxins
October 21	Thermal physiology
October 26	Extreme environments
October 28	Sports physiology
November 2	Nutritional diseases
November 4	Midterm II
November 9	No class (reading week)
November 11	No class (reading week)
November 16	Stress
November 18	Obesity
November 23	Anorexia
November 25	Presentations
November 30	Presentations
December 2	Aging
December 7	Sleep
December 9	Review

Evaluation

This course will be evaluated by one presentation, two midterm exams and one final exam. The final exam is cumulative.

Midterm I (25%)

Midterm II (25%)

Final exam (30%)

Presentation (20%)

Presentation

This is an oral presentation of a research paper with class discussion and write-up. Details will be provided in class.

Attendance:

Attendance at all lectures is strongly recommended as exam content will be based on material presented and discussed in class.

Grade Summary:

The available letters for course grades are as follows:

Percent (%) to Letter Grade Conversion	Grade	Grade Point	Description
92% - 100%	A+	4.0	Excellent
85% - 91.9%	A	4.0	
80% - 84.9%	A-	3.7	
77% - 79.9%	B+	3.3	Good
73% - 76.9%	B	3.0	
70% - 72.9%	B-	2.7	
67% - 69.9%	C+	2.3	Satisfactory
63% - 66.9%	C	2.0	
60% - 62.9%	C-	1.7	
55% - 59.9%	D+	1.3	Minimal Pass
50% - 54.9%	D	1.0	
0% - 49.9%	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 Important Information:

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.

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 Academic Calendar. 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.

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. Please refer to your professor regarding their electronic etiquette expectations.

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/content/academic-calendar-2>.

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.

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 are normally granted for 30 days beyond the last day of the term.

Normally, Course Extension Applications will be considered only when all of the following conditions are met:

- the quality of prior course work has been satisfactory;
- circumstances beyond your control, such as an extended illness or death of a family member, make it impossible for you to complete the course work on time; and
- you submit *Coursework Extension Application* to the Office of the Registrar on or before the deadline specified in the Academic Schedule.

If granted, time extensions do not excuse you from a final examination where one has been scheduled for the course.

A temporary grade of TX will be assigned until a final grade is submitted in accordance with the new deadline. A final grade of F will apply to:

- all course work submitted after the end of the semester unless a coursework extension has been granted; and all course work submitted after the revised due date provided by an approved extension to coursework.

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/writingcentre>

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
- 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.