



BIOM*2000 Concepts in Human Physiology -

DRAFT

Fall 2021

Section(s): 01

Department of Biomedical Sciences

Credit Weight: 0.50

Version 1.00 - September 24, 2021

1 Course Details

1.1 Calendar Description

This is an introductory course that examines the fundamental integrative aspects of human physiological systems and their role in the maintenance of homeostasis. Course content is intended to serve the needs of non-bioscience students and includes the study of aspects of cellular metabolism, nerve and muscle function and general anatomy and function of the cardiovascular, respiratory, gastrointestinal, immune, central and peripheral nervous, endocrine, renal and reproductive systems. This course cannot be used to fulfill requirements for any biological science minor.

Restrictions:

ANSC*3080, BIOM*3200, HK*2810, HK*3810, HK*3940, ZOO*3200, ZOO*3210, ZOO*3600, ZOO*3620. Not available to BSC Students in biological science specializations or BAS program.

1.2 Course Description

This course will cover all of the major systems in the body and will emphasize normal physiology but will also investigate some pathological conditions. Your lecture materials will be presented *via* PowerPoint slides that will predominantly include images from your textbook. When appropriate, video clips will also be used in class. The slides will be posted and one of the two lectures on each lecture day (10:30 AM -11:20 AM (02)) will be live-streamed; however, students are still encouraged to attend all classes (an optional face-to-face component) to fill in important information covered throughout the course.

This course also uses the CourseLink for the online component. You can access your lecture

materials, sample questions and partial grades through this tool. Note that there is also a **Discussion Board** that I encourage you to use throughout the semester. There will be announcements and forums posted where you can “*Ask Your Professor*” specific questions, inquire about “*FAQs*” that other students might need the answer to (i.e., what units does Midterm 1 cover) and a general “*Class Correspondence*” where students can arrange study groups or note exchange.

1.3 Timetable

Location: ALEX, Room 200

Dates: LEC Mon, Wed, Fri

Time: 8:30am - 9:20am and 10:30am - 11:20am

1.4 Final Exam

TBA

2 Instructional Support

2.1 Instructional Support Team

Instructor:	Pawel Bartlewski
Email:	pmbart@uoguelph.ca
Telephone:	+1-519-824-4120 x53330
Office:	OVMX 1677

3 Learning Resources

3.1 Required Resources

Essentials of Human Anatomy & Physiolo (Textbook)

By Elaine N. Marieb and Suzanne M. Keller* (12th Edition, 2016) is required and is essential for the course. Virtually all of the images that are used in the course material are taken from the textbook and the copyright for use of the images belongs to the publisher, Pearson (www.pearsonhighered.com).

*Note that readings for the 11th edition will also be provided.

4 Learning Outcomes

4.1 Course Learning Outcomes

By the end of this course, you should be able to:

1. Describe basic human body functions and life processes.
 2. Identify the major systems in the human body and relate their functions to their structures.
 3. Name the major components of each body system.
 4. Describe the structures, which comprise each body system and their physiological functions.
 5. Explain how homeostasis is maintained in the body systems and how the body adapts to homeostatic imbalances.
 6. Discuss how various body systems are integrated and provide specific examples where this is observed in the human body
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5 Teaching and Learning Activities

5.1 Lecture

Topics:	Unit 01: Introduction to Physiology
Topics:	Unit 02: Nervous System
Topics:	Unit 03: Cardiovascular System
Topics:	Unit 04: Muscular System
Topics:	Unit 05: Lymphatic System and Body Defenses
Topics:	Unit 06: Respiratory System
Topics:	Unit 07: Urinary System
Topics:	Unit 08: Digestive System
Topics:	Unit 09: Endocrine System

Topics:

Unit 10: Reproductive System

6 Assessments

6.1 Assessment Details

Midterm 1: Units 1-3 (25%)

Date: October 14, 2020/ 10:30 AM-11:20 AM (to be confirmed), Remote

Midterm 2: Units 4-6 (25%)

Date: November 13, 2020/ 10:30 AM-11:20 AM (to be confirmed), Remote

Final Examination: Cumulative (50%)

Date: TBA, TBA

Major emphasis on Units 7-10

7 Course Statements

7.1 Missed Examinations

No alternate midterms will be scheduled! If a mid-term is missed then the weight from the mid-term will be transferred to the final examination. **However, students cannot write a 100% final; therefore, at least one midterm must be completed during the scheduled date and time!** Please e-mail your course instructor within 24 hours of the examination to inform him of your absence.

Please note that the following paragraphs have been added to the University Standard statements because of the COVID-19 pandemic:

7.9 Disclaimer: Please note that the ongoing COVID-19 pandemic may necessitate a revision of the format of course offerings and academic schedules. Any such changes will be announced via CourseLink and/or class email. All University-wide decisions will be posted on the COVID-19 website (<https://news.uoguelph.ca/2019-novel-coronavirus-information/>) and circulated by email.

7.10 Illness: The University will not require verification of illness (doctor's notes) for the fall 2020 or winter 2021 semesters.

7.2 Course Website

The schedule of lectures, sample exam questions and important announcements will be posted to the course website. For all sections of the course, extensive lecture material in the form of PowerPoint slides will be available for perusal.

A course Discussion Board is also provided for communication among members of the class. Queries may be posted to a course instructor(s) regarding lecture material, but it is preferable that other members of the class answer the questions. This creates the best learning situation for all concerned. The lecturer will only respond when the answers are "off-base". The bulletin board is not a place to denigrate individuals or "bad-mouth" lecturers or classmates; if you have a personal complaint, send an email to the course coordinator.

Please maintain appropriate decorum on the Discussion Board. The following is a partial list of the kind of content which is offensive and prohibited on the site. It includes content that:

- Promotes racism, bigotry, hatred or physical harm of any kind against any group or individual;
- Harasses or advocates harassment of another person;
- Involves the transmission of "junk mail", "chain letters", or unsolicited mass mailing or "spamming";
- Promotes information that you know is false, misleading, or promotes illegal activities or conduct, is abusive, threatening, obscene, defamatory or libellous;
- Is or promotes an illegal or unauthorized copy of another person's work, such as providing pirated computer programs or links to them, provides information to circumvent manufacture- installed copy-protect devices;
- Contains restricted or password only access pages, or hidden pages or images (those not linked to or from another accessible page);
- Displays pornographic material of any kind;
- Provides instructional information about illegal activities such as making or buying illegal weapons; violating someone's privacy; providing or creating computer viruses;

Solicits passwords, personal identifying information for commercial or unlawful purposes from other users.

Academic Misconduct

Below is a link to the University of Guelph Undergraduate Degree Regulations and Policies, which includes the description of academic misconduct. The University views academic misconduct to mean offences against the academic integrity of the learning environment.
<http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08->

amisconductoffen.shtml.

Mental Health Information

Some students can sometimes struggle during their university journey: they often find themselves in new situations, both personal and academic, that are complex and difficult. These situations, combined with the young age of our student body, can result in a higher risk of students experiencing mental health problems, especially anxiety and depression. A wealth of information can be found on the More Feet on the Ground website which also provides information on how to recognize and respond to mental health issues: <https://morefeetontheground.ca/>.

Alternatively, the Mental Wellbeing website provides information on how to stay healthy and on where to go if struggling (<https://www.uoguelph.ca/mentalwellbeing/>). Resources for your mental health, including information for counseling services and other contact information are available at: <https://wellness.uoguelph.ca/counselling/mental-health-resources>.

Sexual Violence Information

Sexual violence is a reality that can happen anywhere on campus. Thus, it is crucial that students are informed about how to deal with these situations if they arise. As such, an education module has been designed to provide information needed to support and refer an individual. This material is available on CourseLink at <https://courselink.uoguelph.ca/>. Login with your Central Login Account. The module will appear on your list of 'My Courses' under the 'Resources' heading. Please contact CourseLink Support at 519-824-4120 ext. 56939 if you need technical support to access the module or Diversity & Human Rights if you would prefer to receive this information in a different format. Interested students may also refer to Sexual Violence Support and Information Website. This site provides information to both those who may have experienced sexual violence and those supporting other individuals (<https://www.uoguelph.ca/sexualviolence/panel/home>).

8 University Statements

8.1 Email Communication

As per university regulations, all students are required to check their e-mail account regularly: e-mail is the official route of communication between the University and its students.

8.2 When You Cannot Meet a Course Requirement

When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons please advise the course instructor (or designated person, such as a teaching assistant) in writing, with your name, id#, and e-mail contact. The grounds for Academic Consideration are detailed in the Undergraduate and Graduate Calendars.

Undergraduate Calendar - Academic Consideration and Appeals
<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-ac.shtml>

Graduate Calendar - Grounds for Academic Consideration

<https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/index.shtml>

Associate Diploma Calendar - Academic Consideration, Appeals and Petitions

<https://www.uoguelph.ca/registrar/calendars/diploma/current/index.shtml>

8.3 Drop Date

Students will have until the last day of classes to drop courses without academic penalty. The deadline to drop two-semester courses will be the last day of classes in the second semester. This applies to all students (undergraduate, graduate and diploma) except for Doctor of Veterinary Medicine and Associate Diploma in Veterinary Technology (conventional and alternative delivery) students. The regulations and procedures for course registration are available in their respective Academic Calendars.

Undergraduate Calendar - Dropping Courses

<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-drop.shtml>

Graduate Calendar - Registration Changes

<https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/genreg-reg-regchg.shtml>

Associate Diploma Calendar - Dropping Courses

<https://www.uoguelph.ca/registrar/calendars/diploma/current/c08/c08-drop.shtml>

8.4 Copies of Out-of-class Assignments

Keep paper and/or other reliable back-up copies of all out-of-class assignments: you may be asked to resubmit work at any time.

8.5 Accessibility

The University promotes the full participation of students who experience disabilities in their academic programs. To that end, the provision of academic accommodation is a shared responsibility between the University and the student.

When accommodations are needed, the student is required to first register with Student Accessibility Services (SAS). Documentation to substantiate the existence of a disability is required; however, interim accommodations may be possible while that process is underway.

Accommodations are available for both permanent and temporary disabilities. It should be noted that common illnesses such as a cold or the flu do not constitute a disability.

Use of the SAS Exam Centre requires students to book their exams at least 7 days in advance and not later than the 40th Class Day.

For Guelph students, information can be found on the SAS website

<https://www.uoguelph.ca/sas>

For Ridgetown students, information can be found on the Ridgetown SAS website
<https://www.ridgetownc.com/services/accessibilityservices.cfm>

8.6 Academic Integrity

The University of Guelph is committed to upholding the highest standards of academic integrity, and it is the responsibility of all members of the University community-faculty, staff, and students-to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring. University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff, and students have the responsibility of supporting an environment that encourages academic integrity. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection.

Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member or faculty advisor.

Undergraduate Calendar - Academic Misconduct

<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-amisconduct.shtml>

Graduate Calendar - Academic Misconduct

<https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/index.shtml>

8.7 Recording of Materials

Presentations that are made in relation to course work - including lectures - cannot be recorded or copied without the permission of the presenter, whether the instructor, a student, or guest lecturer. Material recorded with permission is restricted to use for that course unless further permission is granted.

8.8 Resources

The Academic Calendars are the source of information about the University of Guelph's procedures, policies, and regulations that apply to undergraduate, graduate, and diploma programs.

Academic Calendars

<https://www.uoguelph.ca/academics/calendars>

8.9 Disclaimer

Please note that the ongoing COVID-19 pandemic may necessitate a revision of the format of course offerings, changes in classroom protocols, and academic schedules. Any such

changes will be announced via CourseLink and/or class email.

This includes on-campus scheduling during the semester, mid-terms and final examination schedules. All University-wide decisions will be posted on the COVID-19 website (<https://news.uoguelph.ca/2019-novel-coronavirus-information/>) and circulated by email.

8.10 Illness

Medical notes will not normally be required for singular instances of academic consideration, although students may be required to provide supporting documentation for multiple missed assessments or when involving a large part of a course (e.g.. final exam or major assignment).

8.11 Covid-19 Safety Protocols

For information on current safety protocols, follow these links:

- <https://news.uoguelph.ca/return-to-campus/how-u-of-g-is-preparing-for-your-safe-return/>
- <https://news.uoguelph.ca/return-to-campus/spaces/#ClassroomSpaces>

Please note, these guidelines may be updated as required in response to evolving University, Public Health or government directives.
