

University of Toronto Scarborough – Department of Biological Sciences
BIOB35 – Essentials of Human Physiology – Winter 2021

Course Instructor:

Dr. Jason Brown

Email: nysuloem.brown@utoronto.ca

Office Hours:

By appointment only:

<https://outlook.office365.com/owa/calendar/UniversityofTorontoScarborough2@utoronto.onmicrosoft.com/bookings/>

****NOTE:** You must book appointment at least 6 hours in advance; appointments are 15 minutes; the link to the BB Collaborate room will be sent in email

Teaching Assistant:

Avesh Chadee

Email: avesh.chadee@mail.utoronto.ca

Course Description: An exploration of the normal physiology of the human body. Emphasis will be placed on organ systems associated with head and neck, especially nervous, respiratory, muscular, digestive, cardiovascular, and endocrine. The interrelationship among organ systems and how they serve to maintain homeostasis and human health will also be discussed.

Prerequisites: BIOA01H3, BIOA11H3, or Grade 12 Biology

Exclusions: BIOC32H3, BIOC33H3, BIOC34H3, PSL201Y1, BIO210Y5

Lectures:

Two lecture hours will be pre-recorded each week and made available through Quercus. Lecture notes (in PowerPoint format) will be made available at the same time.

On Wednesdays from 2-3pm Eastern time, there will be a live lecture review session via BB Collaborate. (This session will be recorded.) During this session, concepts that students are finding difficult to comprehend as well as tough weekly quiz questions will be reviewed. Students are encouraged to email concepts/questions that they would like to see reviewed ahead of time but can also ask questions during the session.

Lecture Topics:

- 1 – Respiratory Physiology (includes Speech Physiology)
- 2 – Digestive Physiology (includes swallowing)
- 3 – Nervous Physiology (includes Auditory Physiology)
- 4 – Muscle Physiology
- 5 – Circulatory Physiology
- 6 – Endocrine Physiology

Textbook: *There is no textbook for this course.*

Evaluation:

Term Tests	35% (25% best; 10% worst)
Social Media Connections	30% (2.5% x 12 posts)
Final Exam	35%

Important Notes Regarding Evaluations:

Term Tests

There are two Term Tests in this course, **which will be held online via Quercus**. The dates and times of the Term Tests will be determined by the Registrar's Office during the first few weeks of the semester, and I will post this information on Quercus as soon as it is available.

Term Tests may examine any material covered in this course, but the lectures emphasized on each Term Test will be announced on Quercus. Term Tests will be 2 hours and will comprise of multiple-choice questions only. **The Term Test questions will require students to think critically and creatively about the lecture content as students will be expected to explain novel observations and solve problems. This approach will encourage students to develop a deeper understanding of human physiology but, more importantly, will also foster competency for scientific thinking, reasoning, and inquiry, which are essential skills in the kinds of health care careers that students taking this course are interested in pursuing.**

To help students prepare for the Term Tests, optional quizzes (here optional means not worth any marks) will be posted on Quercus each week. *Students are strongly encouraged to discuss these quizzes with the course instructor when they encounter any difficulties, either by email or during office hours/live review sessions.*

Students will be permitted to collaborate with each other during the Term Tests via Google Docs. Links to these Google Docs will be made available at the start of each test. The purpose of this collaboration is i) to maintain exam fairness by ensuring that all students have access to the same information, ii) to encourage students to support each other's skill development, and iii) to foster community and dialogue among students.

If you know in advance that you cannot write a Term Test at the scheduled time because it conflicts with some other valid activity, please notify the course instructor as soon as possible so that arrangements can be made for you to write the Term Test at an alternative time. *Any such alternative time must be before the scheduled date of the Term Test. Please note that only students writing at the scheduled time will have access to the Collaboration Google Doc.*

If you miss a Term Test due to medical illness, then you must submit a Self-Declaration of Student Illness Form, which is available at the following link,

<https://www.utoronto.ca/biosci/sites/utoronto.ca.biosci/files/u26/Self%20Declaration%20of%20Student%20Illness%20Biological%20Sciences%20fillable.pdf>

This form must be submitted to Jennifer Campbell, Biological Sciences Course Coordinator, jac.campbell@utoronto.ca, within three days following the Term Test.

If you miss a Term Test for any other valid reason, please consult with the course instructor as soon as possible. The course instructor will determine whether the reason given for a missed Term Test is valid in accordance with university policies. Also, the course instructor may ask for any documentation required to verify the reason given.

Students who miss one Term Test for a valid reason (medical or otherwise) will not be permitted to write a make-up Term Test; rather, the weight of their Final Exam will be increased by 10%. (The weight of their remaining Term Test will be 25%).

Students who miss both Term Tests for valid reasons will not be permitted to write make-up Term Tests; rather, the weight of their Final Exam will be increased by 35%.

Students who miss a Term Test for any invalid reason will receive a grade of zero for that Term Test.

Social Media Connections

This course was originally conceived so that students in the Specialist Program in Psycholinguistics could meet their requirements for a **general human physiology course**; however, it seems that this course has attracted students from a wide variety of programs. The purpose of the Social Media Connections assignment is to provide students with an opportunity to integrate their existing knowledge of psycholinguistics (or other programs) with their newfound knowledge of human physiology. In doing so, they will come to appreciate the relevance of human physiology to their particular area of study (and their instructor will come to appreciate the relevance of their particular area of study to human physiology).

By the end of the following week, students (working alone or in pairs) will make a social media post (on any social media platform) that illustrates how a **particular topic** learned in that week's lecture is relevant to some aspect of their particular program. In demonstrating the relevance of the topic to their program, students should link to an article—from some reputable source, including newspapers, magazines, research journals, etc. Their post should include a brief, but original, explanation of how their article links human physiology to their particular program; a relevant picture, to make their post visually appealing to their audience; and a hashtag that relates to their particular program. An example of a Social Media Connection is posted on Quercus for reference.

Social Media Connections will be submitted via Quercus. Students can either upload a link to their post or a screenshot of their post. (If working in pairs, only one student should submit the assignment, noting the other student's name in the comments box.) Social Media Connections will be evaluated on a satisfactory/unsatisfactory basis. They will be considered satisfactory so long as they have met the above-stated requirements and are of a calibre expected of a 2nd-year student at UTSC. Each satisfactory Social Media Connection will earn a student 2.5% of their final grade. Students whose Social Media Connection is deemed unsatisfactory, or students who

fail to submit their Social Media Connection for a given week by the above-mentioned deadline, will have the weight of their missed assignment shifted to their Final Exam. Consequently, students who fail to submit a given Social Media Connection are not required to submit any documentation, medical or otherwise.

Final Exam

The Final Exam will be scheduled by the Registrar's Office (April 12-23). It will be 3 hours and will cover all course material, though it will place emphasis on the material discussed since the last Term Test. It will have the same format as the Term Tests.

Accessibility Needs:

Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability/health consideration that may require accommodations, please feel free to approach me and/or the AccessAbility Services Office as soon as possible. I will work with you and AccessAbility Services to ensure you can achieve your learning goals in this course. Enquiries are confidential. UTSC AccessAbility Services staff are available by appointment to assess specific needs, provide referrals, and arrange appropriate accommodations. Contact them at (416) 287-7560 or ability@utsc.utoronto.ca, or visit their website for more information: <https://www.utsc.utoronto.ca/ability/welcome-accessability-services>

Academic Integrity:

Academic integrity is essential to the pursuit of learning and scholarship in a university, and to ensuring that a degree from the University of Toronto is a strong signal of each student's individual academic achievement. As a result, the University treats cases of cheating and plagiarism very seriously. The University of Toronto's *Code of Behaviour on Academic Matters* (<http://www.governingcouncil.utoronto.ca/policies/behaveac.htm>) outlines the behaviours that constitute academic dishonesty and the processes for addressing academic offences. Potential offences include, but are not limited to:

- In papers and assignments:*
- using someone else's ideas or words without appropriate acknowledgement
 - submitting your own work in more than one course without the permission of the instructor
 - making up sources or facts
 - obtaining or providing unauthorized assistance on any assignment.
- On tests and exams:*
- using or possessing unauthorized aids;
 - looking at someone else's answers during an exam or test
 - misrepresenting your identity
- In academic work:*
- falsifying institutional documents or grades
 - falsifying or altering any documentation required by the University, including (but not limited to) doctor's notes.

All suspected cases of academic dishonesty will be investigated following procedures outlined in the Code of Behaviour on Academic Matters. There are other offences covered under the Code, but these are the most common. ***Please respect these rules and the values that they protect.***

Copyright in Instructional Settings:

If a student wishes to audio-record, photograph, video-record, or otherwise reproduce lecture presentations, course notes, or other similar materials provided by instructors, they must obtain the instructor's written consent beforehand. Otherwise, all such reproduction is an infringement of copyright and is absolutely prohibited. In the case of private use by students with disabilities, the instructor's consent will not be unreasonably withheld.