Course Outline

Notes and other course information (including the syllabus) will be posted on Moodle

NO NEED TO COPY MATERIAL RELATED TO SYLLABUS
Check Moodle regularly for course information and announcements!
General Poll

How many of you are:
Not enrolled in this course?
Biology students?
Biochemistry students?
Kinesiology BSc students?
Kinesiology BA students?
Psychology students?
None of the above?
Title: Animal Physiology: From genes to organisms 2nd Edition (2012)
Authors: Sherwood, Klandorf and Yancey,
Course Material

- All course notes and suggested readings will be posted on Moodle
- Please do assigned readings
- Learn the definitions and meaning of terms used in physiology
- Taking this course will expose you to many new terms and concepts.
- You will need to learn many new words
Office Hours

Office hours:
No pre-assigned office hours.

Students should schedule an appointment via email (pbackx@yorku.ca) prior to arriving at my office (LSB 429)

I will typically respond to emails within 24 hours, if I don’t please resend.
Prerequisites:
SC/BIOL 2030 4.0; SC/BIOL 2020 4.0; SC/BIO 2021 4.0
(N.B. students lacking the prerequisites maybe allowed to take the course provided space exists.

How many do not have these prerequisites???
Laboratories:
3 hrs/week beginning the week of Sept 17.

<table>
<thead>
<tr>
<th>Section#</th>
<th>Day</th>
<th>Time</th>
<th>Room:</th>
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<tbody>
<tr>
<td>5</td>
<td>Monday</td>
<td>10:30-1:30PM</td>
<td>Lumbers-110</td>
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<tr>
<td>4</td>
<td>Monday</td>
<td>2:30-5:30PM</td>
<td>Lumbers-110</td>
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<td>Tuesday</td>
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<tr>
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<tr>
<td>2</td>
<td>Wednesday</td>
<td>2:30-5:30PM</td>
<td>Lumbers-110</td>
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<tr>
<td>3</td>
<td>Thursday</td>
<td>2:30-5:30PM</td>
<td>Lumbers-110</td>
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</tbody>
</table>

LABORATORY STAFF
Head Laboratory Technicians: Maris Mazzuro and Helen Jung
Head Laboratory Teaching Assistant/TA:
Farnaz Mansouri-Noori  farnaz.mansouri@gmail.com
Course Bookkeeping

Grading:
Midterm Test (Oct 19\textsuperscript{th} 2018) = 20\% (1 hour)
Laboratory work: Laboratory reports = 20\%
Laboratory exam (TBA) = 15\%
Final examination (during fall exam period) = 45\%
Total = 100\%

Test format: True/false, multiple choice, short and long answer questions
Sample questions will be provided on Moodle and in class
Missed Midterms and Exams

For any student who misses a midterm exam and receives approval from the Course Director

percent weighting and material from the midterm will be put on the final exam.
Missed Midterms and Exams

Policy on Missed Midterm and Final Examinations

Midterm examinations are **not optional**!

1) The student must contact the course director (i.e. ME!) by **email** within **48 hours** following the test or examination. The student must clearly state the following:

Full name

Student number, course and section

Reason for missing the exam

2) If the student cannot contact the course director during this 48 hour period, documentation in writing accounting for the delay **must** be provided.
Missed Midterms and Exams

3) Appropriate documentation verifying the circumstances for the missed test or examination must be provided at the time specified by the course director. Failure to provide appropriate documentation will result in a grade of zero on the missed exam.

What is appropriate documentation?

Medical circumstances
Tests/exams missed due to medical circumstances must be supported by an attending physician’s statement or a statement by a psychologist or counsellor. The physician’s statement must include the following:
- Full name, mailing address, telephone number of the physician.
- State the nature of the illness and its duration (i.e., specific dates covered), and an indication of whether the illness and/or medication prescribed would have SERIOUSLY affected the student’s ability to study and perform over the period in question.

NOTE: the physician's office may be contacted to verify that the forms were completed by the physician.
Acceptable Physician’s Note

YORK Registrar’s Office

Attending Physician’s Statement

Section I - To be completed by the student. Return completed form to Student Client Services with your petition.

Please PRINT

<table>
<thead>
<tr>
<th>Physician Information</th>
<th>Student Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physician’s Name</td>
<td>Patient’s Name (if other than Student)</td>
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<tr>
<td>Street Address</td>
<td>Student’s Name</td>
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<tr>
<td>City</td>
<td>Province</td>
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<td>Postal Code</td>
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<td>Student Number</td>
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I authorize my physician to release to the Registrar’s Office the information requested on this form.

Signature of Student/Patient (if other than Student) Date

Section II - To be completed by the attending physician.
The above named student, who is registered at York University, has petitioned for special consideration on medical grounds. The student or parent related to the student is authorizing you, the attending physician, to release the information requested below. Please retain a copy of this form for your files as your office may be contacted to verify that this statement was completed by the attending physician. The original form must be returned to the student for submission with the petition.

Please Print

1. Date you received this form: _______________________

2. Consultation Date(s) Date(s) of Illness Nature of Illness Treatment

   _______________________

   _______________________

   _______________________

3. Duration of Illness:
   a) To the best of your knowledge, when did the illness start, or the accident occur? _______________________
   b) When will the student be able to resume his/her studies? _______________________

4. Effects: Do you think that the illness and/or medication prescribed would have SERIOUSLY affected the student’s ability to study and perform? ☐ YES ☐ NO If yes, (a) in what way? _______________________

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Missed Midterms and Exams

Non-medical circumstances

Tests/exams missed due to non-medical circumstances must be supported by appropriate documentation, i.e., death certificates, obituary notice, automobile accident reports, airline/bus ticket/receipt for emergency travel (with date of booking on ticket), etc.

Airline/train/bus ticket/receipts for emergency travel must indicate destination, departure, and return dates.

Conflict with work obligations is not a valid excuse for missing a test.
Missed Midterms and Exams

The manner in which the missed test (which has been legitimately documented) is handled will be at the discretion of the course director.

You should be aware that if you miss the test before the official drop date, you will not have the requisite 10% feedback on your course work to determine if you need to drop the course or not.

It is in your best interest to write the scheduled midterm tests.
Missed Test Exemption Form

Form will be posted on Moodle
Ask Questions in Class

1. **READ/REVIEW** the lectures notes and assigned readings PRIOR to class

2. **Ask questions during the class.** It makes my job a lot easier. Depending on the room availability, it may not be possible to ask your questions after class. If you are unclear, I am quite sure you are not alone. I cannot read minds.

3. **REVIEW/STUDY** notes in advance of exams. I do **NOT** generally meet with students on the day of exams and I cannot guarantee being available after 5:00 pm on the day before tests.
I LOOK FORWARD TO TEACHING THIS CLASS

I HOPE YOU FIND THIS COURSE INTERESTING AND HOPEFULLY IT WILL BE HELPFUL IN YOUR FUTURE PURSUITS
Physiology
Definitions and types of physiology. The role of various disciplines such as physics, chemical, biochemistry, molecular biology, genetics and engineering in physiology. Levels of organization in life systems. Key role of homeostasis in maintaining life. Organ systems physiology.

General Discussion of Cells and Membranes

The Nervous System, Ions and Excitation

Mechanisms of Muscle Contraction
Molecular basis of contraction. Motor control. Basic reflexes. Types of skeletal muscles. Smooth muscle. Differences between skeletal muscle versus cardiac muscle versus vascular smooth muscle

Cardiovascular System
Control of heart rate and heart contraction. Pressure-volume relationships. Baroreceptor reflexes. Vascular structure-function (omitting details of capillaries which will be covered in Animal Physiology 2).

Sensory Systems
Pressure, temperature, proprioception, olfactory, sight