Physiology 1021: Introduction to Human Physiology
Course Syllabus

Course Coordinator: Dr. Angela Beye (abeye2@uwo.ca)
Office hours Tues. & Thurs. 10:30-noon in MSB 207

1. Course Information

Fall/Winter Term 2018/2019

An introductory course, outlining the principles of human/mammalian physiology along with a general survey of various physiological systems (e.g. cardiovascular, renal, neural, motor, gastrointestinal, endocrine, respiratory, etc.). Physiology 1021 is designed to help you learn the basic facts, concepts and principles that are essential to your understanding of the function of the human body, so that you will be able to use that knowledge to solve physiological problems. Because most of you who are enrolled in this course intend to pursue careers related to health, the course will place some emphasis on clinical correlations with pathophysiology.

Requisites:
Prerequisite(s): Grade 12U Biology or equivalent. Grade 12U Chemistry recommended.
Antirequisite(s): Physiology 1020, 2130, 3120

Senate regulation regarding the student’s responsibility regarding prerequisites:
“Unless you have either the requisites for this course or written special permission from your Dean to enroll in it, you may be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.”

Course Format: There are two lectures given a week on Tuesdays and Thursdays from 9:30-10:20AM in the North Campus Building (NCB) room 101. You will also be expected to attend a weekly one-hour tutorial in the location indicated on your student course timetable.

Accessibility Statement

Please contact the course coordinator (Dr. Beye) if you require material in an alternate format or if any other arrangements can make this course more accessible to you. You may also wish to contact Services for Students with Disabilities (SSD) at 661-2111 x 82147 for any specific question regarding an accommodation.
2. Instructor Information

<table>
<thead>
<tr>
<th>Instructors</th>
<th>Email</th>
<th>Office</th>
<th>Phone</th>
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<tbody>
<tr>
<td>Prof. Angela Beye</td>
<td><a href="mailto:abeye2@uwo.ca">abeye2@uwo.ca</a></td>
<td>MSB 207</td>
<td>519-661-3453</td>
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<tr>
<td><em>Course Coordinator</em></td>
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<tr>
<td>Prof. Sarah McLean</td>
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<td>519-661-3484</td>
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<td>Prof. Steve Lomber</td>
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<tr>
<td>Prof. John Ciriello</td>
<td><a href="mailto:John.ciriello@schulich.uwo.ca">John.ciriello@schulich.uwo.ca</a></td>
<td>MSB 260</td>
<td>519-661-3474</td>
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<tr>
<td>Prof. Tom Stavraky</td>
<td><a href="mailto:Tom.Stavraky@schulich.uwo.ca">Tom.Stavraky@schulich.uwo.ca</a></td>
<td>MSB 206</td>
<td>519-661-3474</td>
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<tr>
<td>Prof. Anita Woods</td>
<td><a href="mailto:Anita.woods@uwo.ca">Anita.woods@uwo.ca</a></td>
<td>MSB 208</td>
<td>519-661-4007</td>
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**Have questions about class material?**

Students have the best opportunity to ask questions regarding course material during tutorials. However, there is also a tutorial specific discussion board on OWL under the “Forums” tab where you may also post questions for your teaching assistant to answer. If you have remaining questions, email the professor who taught that section of the course at the address listed above.

Students with OWL issues should go to the tab called “Help” on the left side menu on OWL. For further support, click “contact us” for contact information.

3. Course Syllabus

**Course Objectives:** There are a few general objectives that you should always keep in mind as you study. You will be expected to be able to recall or recognize facts, concepts, or physiological principles. The ability to recall, however, is of little value unless you can do something with the information that you have learned. Therefore, you should also be able to use your knowledge to explain physiological function.

Most important, of course, is your ability to use your knowledge to predict the consequences of alterations to normal physiological function or to predict changes in physiological systems. Not only are these latter objectives the most useful skills you can learn, but they are also the most interesting. Therefore, the type of effort you put in to learn the course material will affect how well you do at applying what you have learned. We will be teaching you in tutorial about different study methods to achieve the goal of long term retention and a deep understanding of the course material, instead of just trying to memorize for the short-term.

**Learning Outcomes**

By the end of this course successful students will be able to:

1. Describe the function of the cardiovascular, respiratory, gastrointestinal, nervous, muscular, renal, endocrine and reproductive systems in the human body at the organ
and cellular level.
2. Predict how these organs and organ systems will respond to a problem in order to maintain homeostasis.
3. Integrate information from lecture to identify how organs react to pathology and what types of solutions can be utilized to correct the pathology of those systems involved.

Course Topics:
1. Cell Physiology- Prof. McLean
2. Physiology of the Senses- Prof. Lomber
3. Endocrine Physiology- Prof. Beye
4. Autonomic Nervous System- Prof. Ciriello
5. Motor Physiology- Prof. Ciriello
6. Muscle Physiology- Prof. Stavraky
7. Cardiovascular Physiology- Prof. Stavraky
8. Renal Physiology- Prof. Woods
9. Respiratory Physiology- Prof. Beye
10. Gastrointestinal Physiology- Prof. Woods
11. Reproductive Physiology- Prof. Beye
12. Hypothalamic/Limbic Physiology- Prof. Ciriello

For detailed schedule, see the course website on OWL.

4. Course Materials

Required- Physiology 1021 workbook purchased from UWO bookstore.

5. Methods of Evaluation

This course will use several different types of evaluations: assignments, quizzes, exams, and tutorial attendance and participation.

Assignments (5% of final grade)
PeerWise is a website that you will use to complete your five assignments. You will learn more about how to use this website in tutorial. For each assignment, you are required to log into PeerWise to submit two multiple choice questions that you authored, as well as answer five other multiple-choice questions at the specified due dates. Deadlines for completion are on OWL and in the schedule below. For completing both the authoring and answering questions on time, you will receive 1%. Not completing both components of the assignment on time will result in a grade of 0%.

Quizzes (10% of final grade)
You will be completing 5 quizzes worth 2% each. You will be given 20 minutes to answer 10 multiple choice questions. Quizzes will be completed in tutorial according to the schedule outlined below.
Examinations (80% of final grade)
The 3 midterms and a final exam will consist of multiple-choice questions. The questions will be a combination of single best answer and multiple-multiple choice. The midterms will be 1 hour in length. The final exam will be cumulative, with emphasis on the last quarter of the course and run 2.5 hours in length.

Tutorials (5% of final grade)
Tutorial attendance is mandatory. You will be working in small groups on weekly activities. Your teaching assistant will also help you work on areas within the course that you may be struggling with. We believe that this time of active learning is valuable. If you attend all tutorials and participate in your tutorials on your small group activities, you will earn up to 5% of your final grade. To earn attendance, you must sign your name on the class roster and stay for the duration of the tutorial. You will also be asked to answer iClicker questions in your tutorials as part of your participation. Failure to sign in or by not submitting activities and iClicker answers to the TAs will result in a grade of 0 for that week’s tutorial.

Scheduled Evaluations

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<tr>
<th>COMPONENT</th>
<th>DATE</th>
<th>% of Final Mark</th>
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<tbody>
<tr>
<td>Assignment #1</td>
<td>All components completed by Oct. 19th @ 11:59 PM</td>
<td>1%</td>
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<tr>
<td>Assignment #2</td>
<td>All components completed by Nov. 9th @ 11:59 PM</td>
<td>1%</td>
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<tr>
<td>Assignment #3</td>
<td>All components completed by Nov. 30th @ 11:59 PM</td>
<td>1%</td>
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<tr>
<td>Assignment #4</td>
<td>All components completed by Feb. 15th @ 11:59 PM</td>
<td>1%</td>
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<tr>
<td>Assignment #5</td>
<td>All components completed by Mar. 29th @ 11:59 PM</td>
<td>1%</td>
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<tr>
<td>Quiz #1</td>
<td>In tutorial during week of Oct. 23rd</td>
<td>2%</td>
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<tr>
<td>Quiz #2</td>
<td>In tutorial during week of Nov. 13th</td>
<td>2%</td>
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<tr>
<td>Quiz #3</td>
<td>In tutorial during week of Dec. 4th</td>
<td>2%</td>
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<tr>
<td>Quiz #4</td>
<td>In tutorial during week of Feb. 26th</td>
<td>2%</td>
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<tr>
<td>Quiz #5</td>
<td>In tutorial during week of Apr. 2nd</td>
<td>2%</td>
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<tr>
<td>Tutorial Attendance &amp; Participation</td>
<td>Sign in and out for each tutorial; completing weekly tutorial activities</td>
<td>5%</td>
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<tr>
<td>Midterm I</td>
<td>Friday Oct. 26th 7:30 – 8:30 PM</td>
<td>15%</td>
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<td>Midterm II</td>
<td>TBA Dec Exam Period (Dec 10th -21st)</td>
<td>15%</td>
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<tr>
<td>Midterm III</td>
<td>Friday Mar. 1st 7:30-8:30 PM</td>
<td>15%</td>
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<td>Final Exam</td>
<td>TBA April Exam Period (April 11th -30th)</td>
<td>35%</td>
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Missing Evaluations
There may be situations such as illness, or scheduled class conflicts that may prevent you from writing the exams on their scheduled date. You may be eligible to write a make-up exam. Please note that there will only be one make-up exam date that will be scheduled. You must contact the course coordinator (Dr. Beye) immediately upon missing the exam (within 24 hours) to obtain information about the make-up. If you miss both the scheduled exam and the scheduled make-up exam but have no valid reasons for doing so or have done so without obtaining permission from your academic counselling office, you will obtain a 0% for that missed exam performance.
If you have documented reason for missing a midterm and the make-up, your marks for the remaining 2 midterms will each contribute to 20% of your final grade and the final exam will contribute 40% of your final grade. You must write 2 midterms in order to be permitted to write a final exam.

If you have read this far in the syllabus, great work! To demonstrate you did this, please go to the course OWL site, click "course FAQ's" from the left side menu, click on "missing evaluations" button, and select the "syllabus" button to answer the question provided.

There are no make-up assignments or quizzes. Therefore, if you do not complete these within the set time frame, you will receive a mark of 0. If you miss a quiz and have submitted documentation to your academic counselling office that they deem valid and appropriate to support your absence, your quiz mark will be reweighed (ie. each quiz will then be worth 2.5% instead of 2% each). There will be no reweighing for missed assignments due to the long time period students have to complete each assignment.

Absence from Course Commitments

A. Absence for medical illness:

Students must familiarize themselves with the Policy on Accommodation for Medical Illness:
https://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_illness.pdf

If you are unable to meet a course requirement due to illness or other serious circumstances, you must provide valid medical or other supporting documentation to the Dean's office as soon as possible and contact your instructor immediately. It is the student's responsibility to make alternative arrangements with their instructor. For further information please see:
https://www.uwo.ca/fhs/kin/undergrad/academic/accommodation.html

A student requiring academic accommodation due to illness should use the Student Medical Certificate when visiting an off-campus medical facility or request a Record's Release Form (located in the Dean's Office) for visits to Student Health Services.

The form can be found at:
https://www.uwo.ca/sci/counselling/pdf/medicalform.pdf

B. Absence for non-medical reasons:

You are permitted to miss up to 3 tutorials for medical or non-medical absences. However, if you will be missing a quiz in tutorial for non-medical absences, please provide valid documentation directly to your Faculty Dean's Office, just as you would for a medical absence, and not to the course coordinator. It will subsequently be the Dean’s Office that will determine if accommodation is warranted. Please submit this documentation in advance of the quiz or exam you might be missing to ensure it is deemed as an appropriate reason for your absence. For more information on the process, please see
C. Special Examinations

A Special Examination is any examination other than the regular examination, and it may be offered only with the permission of the Dean of the Faculty in which the student is registered, in consultation with the instructor and Department Chair. Permission to write a Special Examination may be given on the basis of compassionate or medical grounds with appropriate supporting documents.

A Special Examination must be written at the University or an Affiliated University College no later than 30 days after the end of the examination period involved. To accommodate unusual circumstances, a date later than this may be arranged at the time permission is first given by the Dean of the Faculty. The Dean will consult with the instructor and Department Chair and, if a later date is arranged, will communicate this to Registrarial Services. If a student fails to write a scheduled Special Examination, permission to write another Special Examination will be granted only with the permission of the Dean in exceptional circumstances and with appropriate supporting documents. In such a case, the date of this Special Examination normally will be the scheduled date for the final exam the next time the course is offered.

Appealing Grades

The Department of Physiology and Pharmacology follows the Western University student academic appeals policy (http://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=1&SelectedCalendar=Live&ArchiveID=#SubHeading_181). All appeals to individual graded course components must be submitted to the course instructor within 3 weeks of the grade being released. All final course grade appeals must be received by June 30 (full year classes). You must first appeal to the course coordinator (Dr. Beye). If this appeal is rejected, then you can appeal to the Undergraduate Chair of the Department of Physiology and Pharmacology (Brad.Urquhart@schulich.uwo.ca). If this appeal is rejected, you may then appeal to the Assistant Dean of the Bachelor of Medical Sciences Undergraduate Education Committee (Candace.Gibson@schulich.uwo.ca).

You must have suitable grounds for appeal which may include: 1) appeal on medical or compassionate grounds; 2) appeal based on extenuating circumstances beyond your control; 3) appeal based on bias, inaccuracy or unfairness. All appeals must be accompanied by a detailed explanation along with supporting documentation. You should submit your appeal as an e-mail with a single attachment. If you have multiple supporting documents, you should merge them into a single document.

Note: Across the Basic Medical Sciences Undergraduate Education programs and within the department of Physiology and Pharmacology we strive to maintain high standards that reflect the effort that both students and faculty put into the teaching and learning experience during this course. All students will be treated equally and evaluated based only on their actual achievement. Final grades in this course, irrespective of the number of decimal places used in marking individual assignments
and tests, will be calculated to one decimal place and rounded to the nearest integer, e.g., 74.4 becomes 74, and 74.5 becomes 75. Marks WILL NOT be bumped to the next grade or GPA, e.g. a 79 will NOT be bumped up to an 80, an 84 WILL NOT be bumped up to an 85, etc. The mark attained is the mark you achieved and the mark assigned; requests for mark “bumping” will be denied.

6. Additional Information/Statements

Statement on Academic Offences
Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following website:  
http://www.westerncalendar.uwo.ca/PolicyPages.cfm?PolicyCategoryID=1&command=showCategory&SelectedCalendar=Live&ArchiveID=

Computer-marked multiple-choice tests and/or exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating.

Cell Phone and Device Policy
The Department of Physiology and Pharmacology is committed to ensuring that testing and evaluation are undertaken fairly. For all tests and exams, it is the policy of the Department of Physiology and Pharmacology that any devices with a battery (e.g. cell phone, tablet, camera, watch, smart watch, ipod) are strictly prohibited. These devices MUST be left either at home or with the student’s bag/jacket at the front of the room and MUST not be at the test/exam desk or in the individual’s pocket. Any student found with one of these prohibited devices will receive a grade of zero on the test or exam. Non-programmable calculators are only allowed when indicated by the instructor. The Department of Physiology and Pharmacology is not responsible for stolen/lost or broken devices.

Support Services:
Registrar’s Services: http://www.registrar.uwo.ca
Academic Counselling: https://www.uwo.ca/fhs/kin/undergrad/academic/index.html
USC Student Support Services: http://westernusc.ca/services/
Student Development Services: http://www.sdc.uwo.ca
Student Health Services: https://www.uwo.ca/health/services/students/shs/index.html

Students who are in emotional/mental distress should refer to Mental Health@Western http://www.uwo.ca/uwocom/mentalhealth/ for a complete list of options about how to obtain help.