1. Course Information

**Physiology 2130: Human Physiology**  
**Fall/Winter Term 2017/2018**

A survey course outlining the principles of human/mammalian physiology; general properties of the living cell and internal environment; neural, muscular, cardiovascular, respiratory, gastro-intestinal, renal and endocrine system; metabolism, reproduction and homeostasis. Physiology 2130 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. 2 lecture hours, 1 tutorial hour, 1.0 course

**Requisites:**  
Prerequisite(s): First year courses in biology and chemistry are recommended  
Antirequisite(s): Physiology 1020, 1021, 3120

**Senate regulation regarding the student's responsibility regarding requisites:**  
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.

**Accessibility Statement**  
Please contact the course instructor 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

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<thead>
<tr>
<th>Instructors</th>
<th>Email</th>
<th>Office</th>
<th>Phone</th>
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<tbody>
<tr>
<td>Prof. Anita Woods (Course Coordinator)</td>
<td><a href="mailto:Anita.woods@uwo.ca">Anita.woods@uwo.ca</a></td>
<td>MSB 208</td>
<td>519-661-4007</td>
</tr>
<tr>
<td>Prof. Sarah McLean</td>
<td><a href="mailto:Sarah.mclean@schulich.uwo.ca">Sarah.mclean@schulich.uwo.ca</a></td>
<td>MSB 203</td>
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<tr>
<td>Prof. Stephen Lomber</td>
<td><a href="mailto:Steve.lomber@uwo.ca">Steve.lomber@uwo.ca</a></td>
<td>SSC 9214</td>
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<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>
</tr>
<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>519-661-3484</td>
</tr>
<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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OWL
Students have the best opportunity to ask questions regarding course material during tutorials. However, there is also a tutorial specific discussion board where you may also post questions for your teaching assistant to answer. If you have remaining questions, email the professor who taught that portion of the course to the addresses listed above.
Students with OWL issues should see: https://owl.uwo.ca/portal/site/owldocs

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 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 also they are the most interesting.

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

1. Describe the function of the cardiovascular, respiratory, gastrointestinal, neuro,
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 Format:** There are two lectures given a week on Tuesdays and Thursdays from 8:30-9:30 in NS 145. You will also be expected to attend a weekly one-hour tutorial in the location indicated on your student course timetable.

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

4. Course Materials

**Required-** Study Guide/ Mastering A&P/ eTextbook package purchased from UWO bookstore.

*If you are a student facing financial difficulty and purchasing this package would not be possible, please email or come and see Dr. Woods as soon as possible*

5. Evaluation:

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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>Completed by September 29th @noon</td>
<td>1%</td>
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<tr>
<td>Assignment #2</td>
<td>Completed by October 27th @noon</td>
<td>1%</td>
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<tr>
<td>Assignment #3</td>
<td>Completed by December 1st @noon</td>
<td>1%</td>
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<tr>
<td>Assignment #4</td>
<td>Completed by January 26th @noon</td>
<td>1%</td>
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<td>Assignment #5</td>
<td>Completed by February 28th @noon</td>
<td>1%</td>
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<tr>
<td>Assignment #6</td>
<td>Completed by March 31st @noon</td>
<td>1%</td>
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<tr>
<td>Quiz #1</td>
<td>Submitted by November 8th @noon</td>
<td>1%</td>
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<tr>
<td>Quiz #2</td>
<td>Submitted by December 6th @noon</td>
<td>1%</td>
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<tr>
<td>Quiz #3</td>
<td>Submitted by February 28th @noon</td>
<td>1%</td>
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<tr>
<td>Quiz #4</td>
<td>Submitted by April 4th @noon</td>
<td>1%</td>
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<tr>
<td>Tutorial Attendance &amp; Participation</td>
<td>Sign in and out collected weekly, answering learning catalytic questions in tutorial</td>
<td>5%</td>
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<tr>
<td>Midterm I</td>
<td>Friday Nov. 10th 6:00 – 7:00 PM</td>
<td>15%</td>
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<tr>
<td>Midterm II</td>
<td>TBA (Dec 10th-21st)</td>
<td>15%</td>
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<tr>
<td>Midterm III</td>
<td>Friday Mar. 2nd 6:00-7:00 PM</td>
<td>15%</td>
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<tr>
<td>Final Exam</td>
<td>TBA (April 14th-30th)</td>
<td>40%</td>
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The midterms and final exam will consist of multiple-choice questions. The questions will be a combination of single best answer and 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, 3 hours in length.

Note: It is the policy of the Department of Physiology and Pharmacology and the BMSc program in the Schulich School of Medicine and Dentistry to report the grade you earned in the course. Grades will not be “bumped”. For example, if your final grade is 78.45%, it will be entered as 79% and will not be “bumped” to 80%.

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.uwo.ca/univsec/handbook/appeals/scholastic_discipline_undergrad.pdf](http://www.uwo.ca/univsec/handbook/appeals/scholastic_discipline_undergrad.pdf).

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.

Absence from course commitments

A. Absence for medical illness:

Students must familiarize themselves with the Policy on Accommodation for Medical Illness: [https://studentservices.uwo.ca/secure/index.cfm](https://studentservices.uwo.ca/secure/index.cfm)

Statement from the Dean’s Office, Faculty of Science
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 once the accommodation has been approved and the instructor has been informed. In the event of a missed final exam, a "Recommendation of Special Examination" form must be obtained from the Dean's Office immediately. For further information please see:

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://studentservices.uwo.ca/secure/medical_document.pdf

B. Absence for non-medical reasons:

A clear indication of how non-medical absences from midterms, tutorials, laboratory experiments, or late essays or assignments, will be dealt with must be provided. If documentation is required, such documentation must be submitted by the student directly to the appropriate Faculty Dean's Office and not to the instructor. It will subsequently be the Dean's Office that will determine if accommodation is warranted.

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.
Support Services:

Registrarial Services:  http://www.registrar.uwo.ca

Academic Counselling (Science and Basic Medical Sciences):  
http://www.uwo.ca/sci/undergrad/academic_counselling/index.html

USC Student Support Services:  http://westernusc.ca/services/

Student Development Services:  http://www.sdc.uwo.ca

Student Health Services:  http://www.shs.uwo.ca/

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.