

## PSL201Y: Basic Human Physiology—2013/14

### Course description

PSL201Y is an introductory course in the functioning of the human body. It is intended for students who have an interest in or a need for a basic course in Human Physiology. Your future careers may lie in the health sciences or in any field for which some knowledge of physiology would provide a breadth requirement.

A variety of activities—lectures, virtual labs (PhysioEx) and help sessions—are planned to help you learn the material. To do well in the course, we recommend that you participate fully in all of these activities and that you keep up to date with the material. We hope you enjoy the course.

**Note:** Arts & Science students who plan to take most third- and fourth-year PSL courses, should take PSL300H and PSL301H instead of PSL201Y. Many Specialist and Major Programs of Study (PoST) also require PSL300H and PSL301H rather than PSL201Y. This includes Specialists in Human Biology, Human Health and Disease, Pharmacology, Physiology, Nutritional Sciences and Pathobiology.

### Prerequisite

BIO120H and BIO130H or a university course in biology

### Course administrator

Dr. Michelle French – [michelle.french@utoronto.ca](mailto:michelle.french@utoronto.ca)

Office hours: Tuesdays 4:00 to 5:00 pm

Room: MS3368

### Required texts

Stanfield CL and Germann WJ. *Principles of Human Physiology*, 5th edition, Benjamin Cummings, 2013.\*

AND

Stabler T, Peterson G, Smith L, Gibson MC, Zanetti N and Lokuta, *PhysioEx 9.0: Laboratory Simulations in Physiology with 9.1 Update*, Benjamin Cummings, 2013.

Both are packaged together and can be purchased in the U of T bookstore

\* The third or fourth edition of the textbook is OK, but please make sure you have PhysioEx 9.0 or 9.0 with the 9.1 update, both the manual and CD.

### Evaluation

3 Term tests (1 hour each) – 2 X 30% = 60% (best 2 out of 3).

Cumulative final exam (3 hours) – 40%

All tests and the exam will be based on lectures and PhysioEx exercises. All questions will be multiple choice. It is expected that students will write all three term tests and the best 2 marks will be used to calculate your final mark. There will be no makeup term tests for any reason – therefore, plan to study for and write all term tests.

## Lectures

**PSL201Y:** Tuesdays 6-8 PM, Room: Pharmacy Building, Room B150 (Sept to Dec), Pharmacy Building Room B250 (Jan to Apr)

## PhysioEx help sessions

Students are expected to complete the PhysioEx exercises on their own. If you have any questions regarding the exercises, you are encouraged to get help from our TA at the following times and locations.

Days and times: Tuesdays 5-6 pm; room TBA. Help sessions start the week of September 23<sup>rd</sup>. No help sessions during the Fall Study break (Nov 12<sup>th</sup>) or during Reading week (week of Feb 17<sup>th</sup>). Help sessions will **NOT** be held on days of the term tests.

## Additional help

Post your questions regarding lectures, PhysioEx or general administrative questions on the **course website discussion board**. We encourage students to answer questions related to course content too — this is a great way to make sure you understand the material.

## Schedule:

Lectures			PhysioEx
Sep 10	Course overview, Introduction to physiology + Cellular transport and signaling	French	
Sep 17	Neurophysiology 1 and 2	Kee	Exercise 1
Sep 24	Neurophysiology 3 and 4	Kee	
Oct 1	Neurophysiology 5 and 6	Kee	Exercise 3
Oct 8	Neurophysiology 7 and 8	Kee	
Oct 15	Neurophysiology 9/Autonomic nervous sys/	Kee	
Oct 22	Muscle contraction	Kee	Exercise 2
<b>Oct 22</b>	<b>TERM TEST #1 6:00 to 7:00 pm (covers lectures Sept 10-Oct 15 inclusive and PhysioEx exercises 1 and 3)</b> <b>NOTE a 50-min lecture immediately follows the test</b>		
Oct 29	Cardiovascular 1 and 2	Heximer	
Nov 5	Cardiovascular 3 and 4	Heximer	Exercise 5
Nov 19	Cardiovascular 5 and 6	Heximer	
Nov 26	Cardiovascular 7/ Blood and defenses 1	Heximer/ French	Exercise 6
Dec 3	Blood and defenses 2 and 3	French	
December holiday			
Jan 7	Blood and defenses 4, Respiration 1	French	Exercise 11
<b>Jan 14</b>	<b>TERM TEST #2 6:00 to 7:00 pm (covers lectures Oct 22-Dec 3 inclusive and PhysioEx exercises 2, 5, 6)</b>		
Jan 14	Respiration 2	French	Exercise 7
Jan 21	Respiration 3 and 4	French	
Jan 28	Renal 1 and 2	Mavrogiannis	Exercise 9
Feb 4	Renal 3 and 4	Mavrogiannis	
Feb 11	Renal 5, Endocrinology 1	Mavrogiannis /Yue	Exercise 10

Feb 18	Reading Week—No classes		
<b>Feb 25</b>	<b>TERM TEST #3 6:00 to 7:00 pm (covers lectures Jan 7-Feb 11(renal) inclusive and PhysioEx exercises 7, 9, 11)</b>		
Feb 25	Endocrinology 2	Yue	
Mar 4	Endocrinology 3 and 4	Yue	
Mar 11	Endocrinology 5 and 6	Yue	Exercise 4
Mar 18	Endocrinology 7 and 8	Yue	
Mar 25	GI 1 and 2	Ju	Exercise 8
Apr 1	GI 3 and 4	Ju	
<b>April Exam Period</b>	<b>Final examination: All lectures and PhysioEx exercises 4, 8, 10 (3 hours)</b>		

**The above schedule, policies, procedures and assignment in this course are subject to change in the event of extenuating circumstances.**

### **Academic Integrity**

Academic integrity is fundamental to learning and scholarship at the University of Toronto. Participating honestly, respectfully, responsibly, and fairly in this academic community ensures that the U of T degree that you earn will be valued as a true indication of your individual academic achievement, and will continue to receive the respect and recognition it deserves.

Familiarize yourself with the University of Toronto's Code of Behaviour on Academic Matters (<http://www.governingcouncil.utoronto.ca/policies/behaveac.htm>). It is the rule book for academic behaviour at the U of T, and you are expected to know the rules. Potential offences include, but are not limited to:

On tests and exams:

- Using or possessing any unauthorized aid, including a cell phone
- Looking at someone else's answers
- Letting someone else look at your answers.
- Misrepresenting your identity.
- Submitting an altered test for re-grading.

Misrepresentation:

- Falsifying or altering any documentation required by the University, including doctor's notes.
- Falsifying institutional documents or grades.