

**Instructor:**

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Office hours: Mondays 2:00- 5:00 pm

**Course description:**

Physiology has a foundation of concepts and ideas that are used repeatedly to explain a variety of observations. Lectures will focus on these fundamental concepts and ideas and use them to explain phenomenon such as **communication** (the physiology of transport phenomena, nerve and synapse, muscle, the brain and spinal cord, the endocrine glands), the function of the **gastrointestinal tract, the regulation of blood flow** (cardiovascular system and the kidney), and the **regulation of blood gas concentrations** (respiration). A discussion utilizing the integration of ideas and concepts to explain physiological and pathophysiological situations such as acid/base disorders, shock, altitude and exercise will conclude the semester. The course presents the factual material and theories used to explain the function of the organs or systems so that you are able to utilize this information in explaining life situations. The majority of the material is presented in the context of feedback control systems with emphasis placed on the function of the normative cell, tissue and body. References are made to function at other levels on the continuum from pathological conditions to the trained or adapted body.

**Course Textbook and Resources:**

The textbook for the course is **Textbook of Medical Physiology, 11<sup>th</sup>** edition by Guyton and Hall and is available at the University bookstore. The 10<sup>th</sup> edition is also an acceptable textbook for the course. A copy of the textbook is on reserve at the library. The course outline, a tentative lecture schedule, readings and handouts for specific lectures can be found at the Courselink (Blackboard, formerly WebCT) site for the course ([courselink@uoguelph.ca](mailto:courselink@uoguelph.ca)). In WebCT you can submit questions on the course discussion board where TAs will be monitoring daily. The discussion board will be monitored from Sept. 4<sup>th</sup> to Nov. 27<sup>th</sup>, and will be shut down after Nov. 27<sup>th</sup>.

There are 4 teaching assistants (TAs) as resources for this course. TA's will be monitoring the WebCT bulletin board, be available to e-mail directly to answer questions and run question and answer sessions following the completion of every section and prior to each test. There will be extra question and answer sessions prior to the final exam.

**Evaluation:**

Sep-30	15%	Test I - Communication principles and CNS – optional
Oct-21	15%	Test II - Hormonal communication and gastrointestinal tract – optional
Nov-11	20%	Test III – Regulation of blood flow – optional
Dec-	50%	Final Exam - Total semester – mandatory

The tests on Sep-30, Oct-21 and Nov-11 will be written in the lecture room on the date indicated. The final examination scheduled for December will be written at a time and in a location determined by the Office of Registrarial Services. The final exam is mandatory. The tests on Sep-30, Oct-21 and Nov-11 are optional. If you choose to write Test I (Sep-30) you have the option to drop the mark from your record, if you wish to do this you must indicate this to me by signing a statement provided in class no later than Oct-20. If you choose to write Test II or Test III you do not have the option to drop the marks. The weighting (%) of any test not written and the weighting (%) of a test dropped will be added to the weighting (%) of the final exam.