Instructor: Laurel Roberts, Ph.D.
A230C Langley Hall
624-4291, laurelb@pitt.edu
Website: http://courseweb.pitt.edu
Meeting: Monday, Wednesday, 3:00 – 4:15
L9 Clapp Hall
Office Hours:
Monday: 1:00- 2:00 230C Langley Hall
Wednesday: 4:15– 5:00 102 Clapp Hall
Friday: 2:00 – 3:00 230C Langley Hall
And by appointment: meetme.so/DrLaurelRoberts


Prerequisites: BIOSC 0160 and CHEM 0120.

Lecture:
There are two 75-minute lecture sessions each week

Rationale:
Physiology is the study of the mechanics of life. Although the organ systems within the human body are diverse in their structures and functions, there are certain core principles that apply to each system and the maintenance of the body. After a general introduction to cell biology, intercellular communication, and the physiology of nerves and muscle, this course will survey the functions of the body systems. Each system will be integrated into the broader concept of homeostasis and the adaptations for pathology and challenges (e.g., exercise).
**Goals and Objectives:**
Students will be able to…

- **Communicate** their understanding of physiological principles while serving as resources for their peers.
- **Describe** the general organization of the human body in terms of cells, tissues and organ systems.
- **Explain** how the directed movement of solutes controls the movement of water.
- **Explain** the significance of receptor-ligand interactions in a variety of organ systems.
- **Identify** how the mechanisms used by the nervous and endocrine systems coordinate and control the function of the human body.
- **Apply** their understanding of physiology to processes involved in the common pathologies of each system studied.
- **Make** predictions about the probable homeostatic responses of the body to changes in the external and internal environment.
- **Describe** the interactions of organ systems during the maintenance of homeostasis
- **Make** better-informed decisions about issues related to their personal health

**Academic Integrity:** Students in this course will be expected to comply with the University of Pittsburgh's Policy on Academic Integrity: Student Obligations. Any student suspected of violating this obligation, for any reason, during the semester will be required to participate in the program set forth in the University Guidelines on Academic Integrity. This may include, but is not limited to, the confiscation of the examination of any individual suspected of violating University policy. Furthermore, no student may bring unauthorized materials to an examination, such as dictionaries or a programmable calculator with stored information specific to the material covered in this course.

**E-mail Communication:** The University uses your university e-mail address (username@pitt.edu) for official communication with students. Students are expected to read e-mail sent to this account on a regular basis. Failure to read and react to University communications in a timely manner does not absolve the student from knowing and complying with the content of the communications. The University provides an e-mail forwarding service that allows students to read their e-mail via other service providers (e.g., Hotmail, AOL, Yahoo). Students that choose to forward their e-mail from their pitt.edu address to another address do so at their own risk. If e-mail is lost because of forwarding, it does not absolve the student from responding to official communications sent to their University e-mail address. To forward e-mail sent to your University account, go to [http://accounts.pitt.edu](http://accounts.pitt.edu), log into your account, click on **Edit Forwarding Addresses**, and follow the instructions on the page. Be sure to log out of your account when you have finished. (For the full E-mail Communication Policy, go to [www.bc.pitt.edu/policies/policy/09/09-10-01.html](http://www.bc.pitt.edu/policies/policy/09/09-10-01.html).)

**Disability:** If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact both your instructor and the Office of Disability Resources and Services, 216 William Pitt Union, 412-648-7890/412-383-7355 (TTY), as early as possible in the term. Disability Resources and Services will verify your disability and determine reasonable accommodations for this course.

**Grading Policy:** Four hourly exams and a comprehensive final, each comprised of 50 points. The lowest exam grade will be dropped when computing the final average. There will also be assignments which will include: Open Response writing (in-class), online Top Hat questions during class and quizzes on CourseWeb.
Grades will not be curved.

Missed Exams: There will be NO MAKE-UP EXAMS. If you miss a mid-term exam, that will be the grade that you drop. There are no excused absences for final exams. Students who would qualify for an excused absence for the final may apply (to me) for an incomplete or “G” grade.

G Grades: Students who wish to petition for a G grade must submit, in writing, a specific request for this grade change and you must document your reason(s). You are required to make the necessary arrangements with the instructor to remove the G grade. Remember that G grades, per CAS guidelines, are to be given only when students who have been attending a course and have been making regular progress are prevented by circumstances beyond their control from completing the course after it is too late to withdraw (University of Pittsburgh Undergraduate Bulletin, 1999-2002, p. 29). If you miss the final and have a valid excuse, you may receive a G grade, but only after the excuse is documented and arrangements to complete the course work are finalized with the instructor.

Assignment: Value for Final Grade:

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Value for Final Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top 4 Exam Scores</td>
<td>60%</td>
</tr>
<tr>
<td>Top 3 Open Response Scores</td>
<td>10%</td>
</tr>
<tr>
<td>Pre-lecture Quizzes</td>
<td>10%</td>
</tr>
<tr>
<td>Top Hat*</td>
<td>10%</td>
</tr>
<tr>
<td>WISER Quiz (10) + Participation (10)</td>
<td>10%</td>
</tr>
<tr>
<td>TOTAL:</td>
<td>100</td>
</tr>
</tbody>
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*The number of Top Hat questions and their point value will vary. Your final percentage of correct answers will be multiplied by 50 to determine your score for Top Hat.