



ZOOLOGY 261 – Human Physiology I (3)

Tentative Course Outline and Schedule for Fall semester, 2012.

Pre-requisites : Biology 131 and 133.

Note: Credit for Zoology 261 and Zoology 169 will not be allowed

Times: **Lectures:** Tuesdays / Thursdays, 2:30-3:45 pm, A2145

Labs: Thursdays, 4:00 – 6:50 pm

Instructor : Dr. Carol Gibbons Kroeker

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Text : Vander’s Human Physiology: The mechanisms of Body Function
West Publication Co. 10th Ed. By Widmaier, Raff, and Strang

(You are also welcome to use Human Physiology: from cells to systems
by Laura Lee Sherwood 6th ed.)

This introductory physiology class will cover the nervous and muscular systems, as well as the endocrine and reproductive systems.

Learning Objectives:

1. Students will be able to discuss the anatomy and physiology of the basic human systems including the nervous, muscular, endocrine, and reproductive systems.
2. Students will learn laboratory techniques essential to research in physiology.
3. Students will collaborate with peers to design and carry out a research and be able to present this in written and oral formats

Mark Distribution :

2 Midterm Exams (in class)	40%
5 Lab Reports / Assign.	20%
Final Exam	40%

(Scheduled by registrar)

This course consists of 3 hours of lectures per week, plus a 3-hour lab.

The midterm and final exams will be a combination of multiple choice questions, as well as short and long answer questions. While most questions will be based on lecture material, the textbook reading will absolutely help in the understanding of this material.

Attendance at lectures is **STRONGLY** recommended and will help ensure success on course exams and assignments.

<u>Dates</u>	<u>Topic</u>	<u>Text Chapters</u>
<u>Week of</u>		
Sept. 6	Introduction to Zoology 261 Homeostasis	1
Sept. 10	Cell Physiology	3, 4
Sept. 17	The Cell Membrane Potential The action potential / synapses	6
Sept. 24	The Muscular system Somatic sensory system	9/10
Oct. 1	Skeletal and Smooth muscle	8
Oct. 8	The Central Nervous system Midterm I	8
Oct. 15	Autonomic nervous system Central nervous system - Reflexes	7
Oct. 22	General Senses – Receptors	7
Oct. 29	Special Senses – Ear / Eye / Pain	7
Nov. 5	Midterm II Special Senses	7
Nov. 12	The endocrine system Central – tropic hormones	11
Nov. 19	The endocrine system Peripheral glands	11
Nov. 16	Reproduction - Male	17
Dec. 3	Reproduction - Female Review	17

Laboratory Schedule

Lab topics will include: the cell membrane, the nervous system, muscle system, endocrine system, and the senses. Labs will begin the week of September 17th and run alternate weeks through the term. Tutorials will be held on the weeks with no laboratory scheduled. Lab coats are not required but are recommended.

Attendance at the laboratory sessions is **COMPULSORY**. Any lab missed without a valid excuse cannot be made up. A valid excuse (such as illness, death in the family etc.) must be validated by written proof from a doctor or counselor. Lab coats are not required.

The lab portion of this course will consist of 3 lab assignments and 2 lab reports worth 4% each.

Tentative Lab Schedule:

Week	Laboratory Exercise
1	Tutorial 1 - Introduction to Laboratory Technique
2	Lab 1 - Osmosis and Diffusion
3	Lab 2 - The Nerve and Electrophysiology
4	Tutorial 2 - Reflexes
5	Lab 3 – The General Senses
6	Lab 4 – The Special senses
7	Tutorial
8	Lab 5 -Mechanical Properties of Skeletal Muscle
9	Tutorial - Physiological Properties of Visceral Smooth Muscle
10	Lab 6 - Endocrine Function
11	Tutorial and Review

Grading Scheme

A+	97-100%	Excellent	C+	67-69%	Satisfactory
A	93-96%		C	63-66%	
A-	89-93%	Good	C-	60-62%	
B+	83-89%		D+	54-59%	
B	77-82%	D	50-53%	Minimal Pass	
B-	70-76%		F	Below 50%	Fail

Please note that final grades will be available on your student portal. Printed grade sheets are no longer mailed out.

Classroom Etiquette:

It is expected that students will take an active role in the learning process. This includes: (a) regular class attendance, (b) reading course material in advance of class, and (c) engaging in discussions during class.

In respect to the professor and to your fellow students, we ask that you:

- a) Turn your phone off during class and that you don't use it for texting during lecture or lab
- b) Not have conversations with the people beside your during lecture – it is very distracting to the people around you
- c) Use your laptops for lecture material and assignments only – that you are not using the internet or facebook during class time.
- d) Arrive to lecture and lab on time
- e) Don't come to class or lab with your ipod or equivalent.

These will help to maximize the learning experience for you and your fellow students (and will keep your professor in a good mood).

It is the responsibility of all students to become familiar with and adhere to academic policies as stated in the Student Handbook and Academic Calendar. Personal information, that is information about an individual that may be used to identify that individual, may be collected as a requirement as part of taking this class. Any information collected will only be used and disclosed for the purpose for which the collection was intended. For further information contact the Privacy Compliance Officer at privacy@ambrose.edu.

Academic dishonesty is taken seriously at Ambrose University College as it undermines our academic standards and affects the integrity of each member of our learning community. Any attempt to obtain credit for academic work through fraudulent, deceptive, or dishonest means is academic dishonesty. Plagiarism involves presenting someone else's ideas, words, or work as one's own. Plagiarism is fraud and theft, but plagiarism can also occur by accident when a student fails or forgets to give credit to another person's ideas or words. Plagiarism and cheating can result in a failing grade for an assignment, for the course, or immediate dismissal from Ambrose. Students are expected to be familiar with the policy statements in the current academic calendar and the student handbook that deal with plagiarism, cheating, and the penalties and procedures for dealing with these matters. All cases of academic dishonesty are reported to the Academic Dean and become part of the student's permanent record.

We are committed to fostering personal integrity and will not overlook breaches of integrity such as plagiarism and cheating. Plagiarism and cheating can result in a failing grade for an assignment, for the course, or immediate dismissal from the university college. Students are expected to be familiar with the policies in the current Academic Calendar and the Student Handbook that deal with plagiarism, cheating, and the penalties and procedures for dealing with these matters. All cases of academic dishonesty are reported to the Academic Dean.