



COURSE INFORMATION SHEET  
**ZOOLOGY 261 – Human Physiology I**

Tentative Course Outline and Schedule for Fall semester, 2009.

Pre-requisites : Biology 131 and 133.

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

**Instructor :** Dr. Carol Gibbons Kroeker  
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**Text :** Vander's Human Physiology: The mechanisms of Body Function  
West Publication Co. 10<sup>th</sup> Ed. By Widmaier, Raff, and Strang

You are also welcome to use Human Physiology: from cells to systems by  
Laura Lee Sherwood 6<sup>th</sup> ed.

**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 learn laboratory techniques essential to research in physiology-related fields.
4. Students will collaborate with peers to design and carry out a research project and be able to present this in written and oral formats

<b>Mark Distribution</b>	:	2 Midterm Exams	40%
		5 Lab Reports / Assign.	20%
		Final Exam	40%

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

The midterm and final exam 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 will help ensure success on course exams and assignments. A separate suggested reading text will be distributed.

<u>Dates</u>	<u>Topic</u>	<u>Text Chapters</u>
<u>Week of</u>		
Sept. 7	Introduction to Zoology 261 Homeostasis	1
Sept. 14	Cell Physiology	3, 4
Sept. 21	The Cell Membrane Potential The action potential / synapses	6
Sept. 28	The Muscular system Somatic sensory system	9/10
Oct. 5	Skeletal and Smooth muscle	8
Oct. 12	The Central Nervous system Midterm I	8
Oct. 19	Autonomic nervous system Central nervous system - Reflexes	7
Oct. 26	General Senses – Receptors	7
Nov. 2	Special Senses – Ear / Eye / Pain	7
Nov. 9	Midterm II Special Senses	7
Nov. 16	The endocrine system Central – tropic hormones	11
Nov. 23	The endocrine system Peripheral glands	11
Nov. 30	Reproduction - Male	17
Dec. 7	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 17<sup>th</sup> and run alternate weeks through the term. Tutorials will be held on the weeks with no laboratory scheduled.

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.

## Grading Scheme

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