



PCB 4723
Animal Physiology
Summer 2014



Course Description

This course will elaborate extensively on concepts of animal physiology already introduced in lower-level biology courses. Topics will include neurophysiology, sensory reception, movement, the nervous, endocrine, circulatory, and digestive systems, osmotic regulation, energy utilization, and behavior. Certain relevant topics already covered in pre-requisite courses, particularly the subjects of the first four chapters of the textbook, might be reviewed briefly in the context of the main course topics but will not be discussed in much detail. Therefore, only students who have taken all the pre-requisite courses, especially PCB 3023 or an equivalent, should be taking this course.

Instructor:

Dr. Walter Sotero-Esteva
E-mail: wsotero@ucf.edu
Phone #: 407-823-4848
Office: Bio 202 B

Section Number: B001 (56564)

Class Times and Room:

MoTuWeThFr 12-1:50 PM, MSB 359

Instructor's Office Hours:

MoTuWeThFr 11-11:30 AM

References

Textbook: Eckert Animal Physiology: Mechanisms and Adaptations, 5th edition, by Randall, Burggren and French. Freeman, 2002. Available at the UCF Bookstore.

Supplemental materials: all lecture notes with figures will be posted on Webcourses (the "Files" section of your PCB4723-14Summer B001 course at webcourses.ucf.edu). You may bring printouts of these files to class.

Grading

There will be four regular exams plus a comprehensive final exam, all of them consisting of multiple-choice questions. Each exam will be worth 100 points. You will receive a score of 0 for any exam that you miss. Make-up exams may be given under special circumstances, but the instructor will ultimately decide the merit of each case. Exam scores will be posted at webcourses.ucf.edu. There will be no additional exams or assignments. The lowest of your *five* exam scores will be dropped and will not count toward your final grade. For example, if you take the first four exams and choose not to take the final exam, you will receive a score of 0 for the final exam but that score will be dropped and will not count toward your final cumulative score. The following formula will be used to calculate your final cumulative score and grade: sum of your four highest exam scores/4. (Do not divide individual scores by 100 before adding them.) Results ending in .5 or a higher decimal round up to the next whole number. The following grading scale will be applied: 90-100: A, 80-89: B, 70-79: C, 60-69: D, 0-59: F.

Exam Schedule

Exam 1: July 1	Exam 3: July 22	Final Exam: August 1
Exam 2: July 11	Exam 4: July 31	

Session Calendar and Schedule of Lecture Topics

The 2014 Summer B session begins on June 23rd and ends on August 1st. There will be no class on July 4th. The following schedule may be subject to modifications.

<u>Topics</u>	<u>Textbook Chapters</u>
The physiology of neuronal function	5
Nerve impulses and neurotransmission	6
Sensory reception	7
Organization of the nervous system	8
Glands and hormones	9
Skeletal muscles and movement	10
Behavior	11
Circulation	12
Gas exchange and acid-base balance	13
Osmoregulation	14
Digestion	15

Attendance

The instructor will not keep record of student attendance, but attending the lectures is strongly encouraged. The topics to be discussed in class may not be limited to those found in the textbook, and not all sections from the reference book chapters will be covered in class. *Only the topics covered during class will be included in the exams.* Please show respect for the instructor and your classmates by arriving on time to class and by staying until the lecture is over. As a courtesy to everyone in the classroom, please silence your phones and any noise-making devices during lectures and exams.

All exams will be offered during regular class times. If you arrive late on exam day, you will be allowed to take the exam but you will be required to finish by the scheduled time. However, *once the first student has finished the exam and left the room, no other students will be allowed in to begin the exam.* You may not have any visible communication devices with you during exams. You may not use calculators that can store information. Please choose appropriately between right and left-handed desks.

Academic Integrity

As a UCF student, you are expected to follow the standards for conduct established in the *Golden Rule Student Handbook* (goldenrule.sdes.ucf.edu).

No disruptive behavior is allowed during classes or exams. No form of disrespect to the instructor or to your classmates is tolerated. Promoting or engaging in academic dishonesty in any form (*cheating* or *enabling cheating*) will be penalized. Do not write the answer letters on the side of the exam pages. This will be considered enabling cheating and will carry an automatic four-points deduction from your exam score. Any form of disruptive behavior or academic dishonesty may result in judicial action, which could result in expulsion from the University. At a minimum, violations of these rules may result in a record of the infraction being placed in your file.

You are responsible for knowing all course rules and policies. The instructor has the ultimate authority to determine the correct interpretation of the contents of this syllabus.