PCB 4723

Animal Physiology

Fall 2013

Course Description

This course will elaborate substantially 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
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Phone #: 407-823-4848
Office: BL 301 E

Section Number: 0001 (85308)
Class Times and Room:
MoWe 10-11:50 AM, PSY 106
Instructor's Office Hours:
TuTh 12-1 PM, Fr 11 AM - 12 PM

References

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

Website: http://sotero.cos.ucf.edu/pcb4723. All lecture notes with figures will be posted here as PPT files.

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. Results ending in .5 or a higher decimal round up to the next whole number. A standard curve will apply: 90-100: A, 80-89: B, 70-79: C, 60-69: D, 0-59: F.

Exam Schedule

All exams will be offered during regular class times (10-11:50 AM).

Exam 1: September 16
Exam 2: October 7
Exam 3: October 30
Exam 4: December 2
Final Exam: December 9

Session Calendar and Schedule of Lecture Topics

The Fall 2013 semester begins on Monday, August 19th and ends on Monday, December 2nd. There will be no class on September 2nd and November 11th.

Topics	Textbook Chapters
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

Although the instructor will not keep record of student attendance, coming to the lectures is strongly encouraged. The lecture PPT files online do not include many notes and diagrams that will be presented in class. 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*. 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.

Please maintain an updated profile at https://ecommunity.ucf.edu/ecommunity/ that includes a knights.ucf.edu email address. The instructor may need to notify you by email in case of an emergency class cancellation or any schedule update.

Policy on Academic Conduct

As a UCF student, you are expected to follow the standards for conduct established by the University in the *Golden Rule Student Handbook*. No disruptive or distracting 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, copying from neighbor, plagiarism, etc.) is not tolerated. Any form of disruptive behavior or academic dishonesty may result in judicial action, which could potentially 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. For more information, read about student rights and responsibilities and rules of student conduct in the *UCF Golden Rule* at http://www.goldenrule.sdes.ucf.edu.

Please show respect for the instructor and your classmates by arriving to class on time and by staying until class is over. As a courtesy to everyone in the classroom, please silence your cell phone or any other noise-making devices during lectures and exams.

The instructor has the ultimate authority to determine the correct interpretation of the contents of this syllabus.