

Vertebrate Physiology Laboratory Th 8-9:50 / 10-11:50 BIOLOGY 414L - Fall 2007

Instructor: Dr. Annette Gabaldón, phone: 549-2213; Email: annette.gabaldon@colostate-pueblo.edu
Office hours: M 3-5pm; Th 1-2pm; other times by appointment.

Attendance: Since this is a laboratory course, attendance is required. Missed labs cannot be made up. If you miss a lab, any assignments, abstracts, or lab reports due for that lab will be given a zero. Under extraordinary circumstances and with prior notice, an assignment may be given to substitute for the lab exercise; the assignment will be at the discretion of the instructor.

Required Text: *None. Handouts will be given out in class prior to each week's lab.*

Students with Disabilities: This University abides by the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973, which stipulate that no student shall be denied the benefits of an education "solely by reason of a handicap." If you have a documented disability that may impact your work in this class and for which you may require accommodations, you must be registered with and provide documentation of your disability to the Disability Services Office, which is located in the Psychology Building, room 232.

Grading:

A standard grading scale (A 90-100%, B 80-89%, C 70-79%, D 60-69%, F<60% of total points)

Lab Report (1 x 100 points).....	100 points
Assignments (10 x 20 points each).....	200 points
Abstracts (3 x 50 points each).....	150 points
Final Exam.....	100 points
TOTAL.....	550 points

Lab Reports: You will write one formal lab report. Lab reports are due two weeks after the lab. Any late work will lose 2% points for each day late. **Abstracts:** You will write 3 abstracts. These are generally a one-page written summary describing the lab. Formats for writing your lab reports and abstracts will be discussed in class. **Assignments:** Ten total; will be assigned on the day of lab; due when announced.

Tentative Lab Schedule (any changes will be announced in class)

Date	Week	Topic	Graded Work
30-Aug	1	Data Collection and Analysis: Brown Adipose Tissue Microdialysis Simulated Experiment (<i>Image-J Program</i>)	Assignment 1
6-Sep	2	Enzymes: Effects of pH and Temperature on Digestive Enzymes	Assignment 2
13-Sep	3	Temperature Regulation: Boiled Eggs & Human Skin (<i>Logger Pro</i>)	Abstract 1
20-Sep	4	Temperature Effects and Q ₁₀ : Ants, Stinkbugs, Guppies	Abstract 2
27-Sep	5	Aerobic Metabolism: Dissolved Oxygen Concentrations (<i>Logger Pro</i>)	Assignment 3
4-Oct	6	Aerobic Metabolism: Rodent Oxygen Consumption (<i>Logger Pro</i>)	Lab Report
11-Oct	7	Neurophysiology of Nerve Impulses: Computer Simulation (<i>PhysioEx6.0</i>)	Assignment 4
18-Oct	8	Sensing the Environment: Human Sensory Physiology	Assignment 5
25-Oct	9	Endocrinology: Computer Simulation (<i>PhysioEx6.0</i>)	Assignment 6
1-Nov	10	Mechanical Forces: Force Transducers in Physiology (<i>Logger Pro</i>)	Assignment 7
8-Nov	11	Muscle Physiology: Computer Simulation (<i>PhysioEx6.0</i>)	Assignment 8
15-Nov	12	Cardiovascular System: Human Physiology (<i>Logger Pro</i>)	Abstract 3
Nov 19-23	(13)	Thanksgiving Break	<i>Rest & Digest!</i>
29-Nov	14	Respiratory System: Human Physiology (<i>Logger Pro</i>)	Assignment 9
6-Dec	15	Renal System: Urine Lab ("Pee Lab")	Assignment 10
Dec. 12	(16)	Lab Final Exam – Wed. 8:00-10:20 Both sections!	Final Exam