

Comp. An. Physiol.
LECTURE OUTLINE
Prof. Florant

BZ401-FALL 2006

| WEEK OF | TOPIC | Reading Assign. |
|----------------------|-------------------------------------------------------------|---------------------------------|
| Aug. 22-24 | Scientific method, regulation, and the environment | Chapt 1 & 2 and readings |
| Aug. 29-31 | Enzymes, metabolism and membranes | Chapt. 3: pg. 49-77 Chapt. 4 |
| Sept. 5-7 | The neuron and its function | Chapt. 5 + articles |
| Sept. 12-14 | Communication between neurons | Chapt. 6 + readings |
| Sept. 19 | Guest Lecture: Dr. Kanatous: Physiology of diving mammals | Dr. Kanatous Article |
| Sept. 21 | No Lecture: Work on critical paper | Diving readings |
| Sept. 26-28 readings | Sensing the environment: hearing and vision | Chapt 7 + |
| Oct. 3 | Physiology and Behavior | Chapt. 11 + Readings |
| Oct. 5 | <u>EXAM 1</u> | |
| Oct. 10-12 | No Class (work on paper) | Chapt. 9: readings |
| Oct. 17-19 | The basic endocrine system Hormone regulation and action | Chapt. 9: readings |
| Oct. 24-26 | Muscle physiology | Chapt. 10: readings |
| Oct. 31 | Circulation of fluids: Heart dynamics | Chapt. 12 |
| Nov. 2 | Circulatory Adaptations | Readings; Chapt. 12 |
| Nov. 7-9 | <u>EXAM 2</u> | |
| Nov. 14-16 | Respiratory physiology | Chapt. 13 readings |
| Nov. 21-23 | Thanksgiving Break | |
| Nov. 28-30 | Osmoregulation | Chapt. 14 |

Dec. 5-7

Environmental physiology, Chapt. 15-16 plus
Feeding, digestion, nutrition and energetics readings

EXAM 3

(Exam 3 will be given on the day of the final, as per the schedule)

The book that we are using is: Comparative Animal Physiology by Randall, Burggren and French. (5th edition).

The critical paper is also a requirement to complete the class! It must be completed and turned by the last day of classes (not the final exam day!). Each exam is worth 25% of your grade. The critical paper is worth 25%.

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Office Hours: After class (Tues and Thurs), by appointment on Monday and Wed afternoons.