Zoology 310 **Animal Physiology Schedule of Laboratories** **Fall 2010**

Week	Date	Topic & Reading Assignment (Most reading assignments [handouts] will be available on *Moodle*.)
1	Aug. 23	Introduction – Hill et al. (lecture text), Chapters 1, 3, Appendixes A - J
	Aug. 25	Determination of the Protein Concentration in an Unknown Solution
2	Aug. 30	Introduction to *LabScribe*™ & Computer-based Data Acquisition
	Sept. 1	*PhysioEx* Exercise 1: The Cell – Transport Mechanisms and Permeability
3	Sept. 6	**Labor Day – No Class!**
	Sept. 8	Effects of Temperature on Oxygen Consumption in the Lobster Cockroach
4	Sept. 13	Toxicology – The Effects of Ethanol on the Behavior of the Aquatic Oligochaete, *Lumbriculus variegatus*
	Sept. 15	Computer Simulation of the Nernst & Goldman Equations
5	Sept. 20	Computer Simulation of the Action Potential
	Sept. 22	Computer Simulation of Voltage Clamping the Squid Giant Axon
6	Sept. 27	**SURVIVOR!**
	Sept. 29 	**Lecture Exam I (Coverage through Sept. 23 lecture) (administered in 328 Science B during your normal laboratory period)**
7	Oct. 4	Human Nerve Conduction
	Oct. 6	Computer Simulation of Synaptic Transmission
8	Oct. 11	Giant Fiber Action Potentials in the Aquatic Oligochaete, *Lumbriculus variegatus*
	Oct. 13	Human Reflex Responses
9	Oct. 18	Effects of Neurotransmitters on the Contractile Activity of the Earthworm Crop-Gizzard
	Oct. 20	Physiology of Sensory Systems
10	Oct. 25	Contractile Physiology of Human Skeletal Muscle
	Oct. 27	**SURVIVOR!**
11	Nov. 1 	**Lecture Exam II (Coverage through Oct. 26 lecture) (administered in 328 Science B during your normal laboratory period)**
	Nov. 3	Electrocardiography
12	Nov. 8	Human Diving Reflex (Additional Reading – Ch. 25 of Hill et al.) **Independent Student Project Proposals Due** 🛠
	Nov. 10	*PhysioEx* Exercise 5: Cardiovascular Physiology
13	Nov. 15	Blood Pressure
	Nov. 17	Spirometry

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Week	Date	Topic & Reading Assignment (Most reading assignments [handouts] will be available on *Moodle*.)
	Nov. 22 & 24	*Thanksgiving*
14	Nov. 29 Dec. 1 	Independent Student Projects
15	Dec. 6	Urinalysis
	Dec. 8 	Independent Student Project Seminar (Written report due Dec. 9)

 This symbol indicates that you are required to complete and turn in a *PhysioEx* Review Sheet (each worth 20 points). You will be required to complete two Review Sheets during the semester.

 This symbol indicates you are required to complete a short Laboratory Report on this exercise (each worth 20 points). These reports will require you to summarize your data, and for some reports, answer a few questions about the exercise. You will be required to turn in four Laboratory Reports during the semester.

 This symbol indicates that you are required to produce a report on your student project. A proposal (worth 15 points) for your project is due on November 8. The final report (worth 45 points) will be due on December 9. Further details on the report are included in the **Grading Procedures** handout.

 This symbol indicates that your Independent Student Project Group will make a 15-minute oral presentation of your research results.

The Review Sheets and Laboratory Reports are **due one week after the exercise is completed**.

Lateness: Review Sheets and Laboratory Reports (including those associated with the independent project) will be docked 2 points per day for every day they are late.