BIOLOGY II LABORATORY 2011 SYLLABUS

<u>Dates</u>		<u>Topic</u>			
Jan 12-14	PreLab	Moodle microscopy tutorial and quiz (Must complete by 8:00 PM Sunday, January 16)			
Jan. 18-20	LAB 1	DIVERSITY – Print your own copies of the lab handout and worksheet from Moodle and bring to lab; also bring your text to lab			
Jan. 25-27	<u>Lab 2</u>	FETAL PIG DISSECTION – Anatomy and Physiology (bring text to lab) <u>Diversity worksheet due at the start of lab</u>			
Feb. 1-3		FETAL PIG DISSECTION continued Lab Practical Quiz #1 – Diversity			
Feb. 8-10	<u>Lab 3</u>	Mesocosm experiment and Tree Carbon assignment Lab Practical Quiz #2 – Fetal Pig Anatomy & Physiology Tree Carbon worksheet due by end of lab			
Feb. 15-17	LAB 4	Plant Biology –Flower Diversity, Stomata Density and Physiology <u>Meoscosm write-up & Hypothesis Testing worksheet due at start of lab</u> <u>Flower worksheet & Stomata Density write-up due by end of lab</u>			
Feb. 22-24	<u>Lab 5</u>	Animal Embryology (bring text to lab) Lab Practical Quiz #3 – PowerPoint Quiz on Flower Anatomy Stomata Physiology write-up due at start of lab			
Mar. 1-3		Animal Embryology data analysis and presentation Lab Practical Quiz #4 - Animal Embryology			
Mar. 8-10	<u>Lab 6</u>	CRAYFISH BEHAVIOR EXPERIMENT Behavior worksheet and write-up due at end of lab			
Get instructor approval for independent group experiments before Spring Break					
Mar. 15-17		Spring Break			
Mar. 22-24	<u>Lab 7</u>	FROG HEART PHYSIOLOGY EXPERIMENT (2 labs will meet in evenings) Embryology Dose-Response write-up due at start of lab			
Mar. 29-31		Work on independent experiments. Frog heart physiology write-up due by 1:00 PM of your lab day			
Apr. 5-7		Work on independent experiments.			
Apr. 12-14	<u>Lab 8</u>	ECOLOGY LAB (if weather permits) Write-up is due by end of lab			
Apr. 19-21		Research posters due and printed (Easter break: April 21-22) For Tues. lab sections, posters are due by noon, April 19 For Wed. and Thurs. sections, posters are due by noon, April 20. Tues. and Wed lab sections will print posters on their assigned lab days			
April 26-28		ECOLOGY LAB (if not done April 12-14) Write-up is due by end of lab Thursday lab sections print posters on Tuesday April 26 if their Ecology lab was rained out on April 14. Otherwise, print posters on Thurs April 28.			
Friday, April 29		Research Symposium: poster presentations of experiments			

GOALS

After successfully completing this laboratory course, the student should be able to

- 1) recognize and understand some of the diversity of adaptations among living organisms
- 2) describe the basic processes and stages of vertebrate development
- 3) apply the scientific method to the study of animal and plant development, growth, and physiology, animal behavior, and ecology,
- 4) appropriately use references and statistical analyses.

GRADING (All assignments are to be done by yourself unless noted as group work)

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Grades will be assigned according to the following scheme:

100-90% = A to A-	where	80-82% = B-
90-80% = B+ to B-		83-86% = B
80-70% = C+ to C-		87-89% = B+, etc.

All assignments are due on the dates given on the syllabus. Others assignments and due dates may be given in class. Late assignments will be accepted (resulting in mandatory point deductions) only at the discretion of the professor.

ATTENDANCE

Attendance is required. Missed work cannot be made up; a grade of zero will be recorded for missed work. If there are extenuating circumstances, students may be able to attend a different laboratory section **only with advance permission** from **both** the regular professor and the professor whose section the student wishes to attend.