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BIOL 141-01, Biology II, Laboratory, Spring 2005

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<u>Dates</u>		<u>Topic</u>
Jan. 18-20	<u>Lab 1</u>	Diversity – Print your own copy from WebCT and bring to lab <u>Worksheet due at beginning of next lab</u>
Jan. 25-27	Lab 2	Fetal pigs- the mammalian model for Diversity and Adaptation (bring text to lab) (bring text to lab)
Feb.1-3	<u>Lab 3</u>	Introduction to Plant Biology Start Fast Plant Experiments <u>Lab practical quiz on Animal Diversity and Adaptation</u> <u>Plant Biology Worksheet due at end of lab</u>
Feb. 8-10	<u>Lab 4</u>	Animal Embryology (bring text to lab) <u>Lab practical quiz on Plant Biology</u>
Feb. 15-17		Animal embryology data analysis and presentation <u>Lab practical quiz on Animal Embryology</u>
Feb. 22-24		Find literature and work on fast plant lab reports
March 1-3	<u>Lab 5</u>	Frog Heart Physiology lab. <u>Fast plant lab reports due.</u>
March 8-10		Spring Break
March 15-17	<u>Lab 6</u>	Crayfish Behavior lab <u>Frog heart write-up due at start of lab</u> <u>Brief behavior write-up due at end of lab</u>
		Easter Break
Mar. 29 - 31		<u>Student groups get instructor approval for independent experiments.</u> Begin work on behavior experiments
April 5-7		Work on behavior experiments All experiments must be done by 10 PM on Sunday, April 4
Apr. 12-14		Work on behavior posters
Apr. 19-21	<u>Lab 7</u>	<u>Behavior posters due.</u> Ecology lab or print posters (depending on weather) <u>Ecology worksheet due by end of lab</u>
Apr. 26-28	<u>Lab 8</u>	Ecology lab or print posters (depending on weather); <u>Ecology worksheet due by end of lab</u>
Apr.29		<u>Research Symposium: poster presentations of behavior experiments</u>

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 development, plant growth, physiology, behavior, and ecology, and
- 4) appropriately use references and statistical analyses.

GRADING

Adaptation & Diversity Worksheet	20
Plant Biology worksheet	10
Physiology Lab Write-up	10
Practical Quizzes	45
Embryology Data Demonstration	10
Lab Report on Fast Plants	30
Behavior Write-up	10
Ecology Worksheet	15
Poster Presentation (Behavior)	<u>50</u>
Total	200

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.