

Biology 351L Comparative Vertebrate Anatomy Laboratory

Chaminade University of Honolulu/Spring 2002

Mrs. **Patricia Lee-Robinson**

Class Meetings: Wednesdays, 2-4:50 pm, Henry Hall Room 13

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Required Text

Fishbeck and **Sebastiani**, Comparative Vertebrate Anatomy, Manual of Vertebrate Dissection. Morton Publishing Company, 2001

Handouts

Concurrent registration in BI 351 Comparative Vertebrate Anatomy **Lecture** is required.

General Course Objectives:

To examine **structural** aspects of organisms from **representative** vertebrate groups through dissections and demonstrations.

Specific Student Objectives:

To examine different vertebrates and their habitats,

To examine different vertebrates and their **interactions** with both the **abiotic** and **biotic** components of their **environment**,

To understand representative vertebrate groups and their structural **adaptations** to their environments,

To understand representative vertebrate groups and **their** physiologic, **and** adaptations to their environments,

To gain an appreciation of the structure-function relationships in **representative** vertebrates.

Grading:

Two laboratory practical examinations	60%
Quizzes	20%
Laboratory Notebook(evaluated two times)	10%
Attendance/Participation/Dissections	10%

Makeup examinations /-quizzes and extra credit:

Makeup examinations and quizzes are not normally given. If a **student** is ill and brings a doctor's written excuse within 24 hours, the instructor may grant a makeup examination. **Extra** credit assignments are not given.

Attendance

Presence in class is necessary in order for a **student** to fully **grasp** concepts and applications. Absences beyond one **unexcused (instructor's prerogative)** will result in a reduction of the course grade.

Readings:

Students are responsible for all text assignments, as **well** as supplementary handouts. Students are encouraged to read ahead to keep up with high volume of material.

Because the university is an academic community with high **professional** standards, its teaching function is seriously disrupted and subverted by academic dishonesty. **Such** dishonesty includes, but is not limited to, **cheating**, which includes giving/receiving **unauthorized** assistance during an examination; obtaining information about an examination before it is given, using inappropriate /unallowed sources of information during an examination; altering **answers** after an **examination** has been submitted; and altering the records on any grade. (Refer to the **Chaminade University** catalog for further information).

Tentative Course Outline:

<u>Week</u>	<u>Date</u>	<u>To C</u>	<u>Assignment</u>
1	1/16	Introduction to laboratory Overview of dissection techniques/expectations Explanation of lab safety guidelines	Introduction in lab manual
2	1/23	Lamprey Dissection	Lab manual: pp. 27-44
3	1/30	Vertebrate Integumen-s Introduction to Skeleton System	Handouts
4	2/6	Skeletal System	Lab manual: pp. 55-66; pp. 209-226
5	2/13	Skeletal System continued Muscular System and External Anatomy	Lab manual: pp. 67-78; 227-258
6	2/20	Muscular system continued	
7	2/27	Body Cavities /Mesenteries	Lab manual: pp. 79-84; pp. 259-269
8	3/6	Laboratory Practical Examination I,;	
9	3/13	Respiratory/Digestive; System	Lab manual: pp. 85-94; pp. 271-284
10	3/20	Urogenital System	Lab manual: pp. 95-100; 285-298
MARCH 25-29: <u>SPRING VACATION</u>			
11	4/3	Endocrine System	Lab manual: pp. 133-135 ; 341-346
12	4/10	Circulatory System	Lab manual: pp. 101-116; pp. 295-324
13	4/17	Nervous System/Sensory	Lab manual: pp. 117-132; pp. 325-340
14	4/24	Nervous System/Sensory Organs	Lab manual
15	5/1	Laboratory Practical Examination I I	

Note: Every effort has been made to insure that the material in ~~tl~~ **this** syllabus is accurate and complete. However, occasionally changes must be made ~~in~~ the printed **schedule**. Thus the **instructor** reserves the right to make any changes in the contents of ~~this~~ **this** syllabus that ~~she~~ **she** deems necessary or desirable. These changes, if any, will be announced as soon as ~~the~~ **the** need for them becomes apparent.