Comparative Vertebrate Anatomyt BIOL 4300 Fall Semester 2021 CRNt 85013 (section A) Instructor - Dr. J. Mitchell Lockhart Office t Biology/Chemistry Building, Rm. 2029

Phone: 3335767 / 3335759 Email: jmlockha@valdo5

Laboratory t Monday, 11:00 AM t 1:50 FM, BCB2071

Textbook-Kentand Carr, Comparative Anatomythe Vertebrates, Ninth Edition(Suggeste) Laboratory Textbook Fishbeck and Sebastiani, Comparative Anatomyanual of Vertebrate

Dissection(Third Edition)(Required)

Dissection KitRequired

Specimens (ROVIDE)

CourseObjectives As stated in your handbook, this course involves an anatomical and phylogenetic survey of representative vertebrate animals. We will cover objectives in more depth during the firstew lectures.

Attendance

questions concerning grading should be brought to the attention of the instrubtor LATER an one week following returnform exam. NO makeup exams will be given For the laboratory grade, 3 lab practicals (tentative) will be given. Labe practicalscannot be made up. If a lab practical is missed, you will receive a zero for that lab grade.

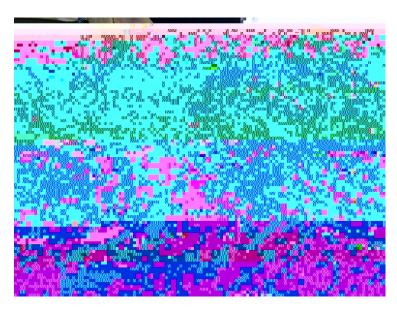
 $\label{lem:complete} Complete\ information {\tt about the\ SOIs} including how to\ access {\tt the\ survey}, is\ available\ on\ the\ SOI\$

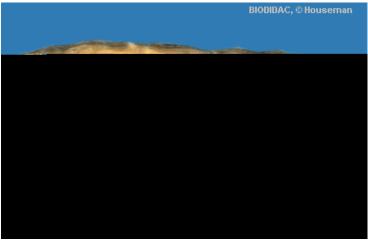
DISSECTIONSSIGNMENT

You will work in groups of two with the partner you have in lab, to prepare a powerpoint chronology of the dissections you are performing. This will stimulate you to do excellent, meticulous dissections in the labtorary. I want each groupottakedigital photographs of their dissections, import them into powerpoint, and label all parts that you are required to learn in the laboratoryLabel anatomical parts clearly within powerpoint with either NUMBERS or LETTERS. Then on the following provinct slide, provide a key for the previous photograph.

You are not required to do this for the lampretywill be a bonus point opportunity) but I do want photographs of the mudpuppy, shark, and cat. Your laboratory guide gives you an EXCELLENT refere and should you come anywhere close to the quality found in the lab guide, you will do well on the project.

This project will be duen Monday, December &t NOON Youwill turn in a CD jump drivecopy of your project that I CAN OPEN on my computer.





Course Outcomes:

Course:

By the end of BIOL 4300, students who successfully complete the course should have:

- 1. Gained factual knowledge, to include anatomy and physiological terminology, when the principles, about Comparative Vertebrate Anatomy. (D2)3,5; VSUGE(D5)
- 2. Learned fundamental principles, generalizations, or theories of Comparative Vertebrate Anatomy. (DOt

such as word processors, spreadsheets, database management systems, or statistical packages. They will be able toind information using computer searching tools.

4.

Tentative Lecture Outline This is the order in which we will cover topics.

TOPIC

Nature of Vertebrate Morphology/Introduction Origin and Classification of Vertebrates/Early Chordates Fishes

Tetrapods

Development/Embryology Integument and Derivatives

Head Skeleton

Teeth

Axial Skeleton

Appendicular Skeleton

Muscular System

Digestive System

Respiratory System

Circulatory System

Nervous System

Reproductive System

Excretory System

Lecture Exams:

- 1 t September20
- 2 t October 27
- 3 t December3

Final Examt FridayDecember 10 8:00-10:00AM

Tentative Lab Schole - This is the order in which we will cover topics.

	Week of	TOPIC
1	August 17	Introduction
2	August 24	Lesser Chordates and Vertebrates
3	August 31	Lesser Chordates and Vertebrates
4	September 7	Integumentary System and External Anator Begin Skeleton
5	September 14	Skeleton
6	September 21	Skeleton
7	September 28	LAB EXAM I
8	October 5	Muscular System
9	October 12	N
10	October 19	