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: 3325767 / 3335759 Email: jmlockha@valdo5

Laboratory t Monday, 11:00 AM t 1:50 FM, BCB2071 Textbook- Kentand Carr, Comparative Anatomytote Vertebrates, Ninth Edition(Suggeste) Laboratory Textbook Fishbeck and Sebastiani, Comparative Anatomyanual of Vertebrate Dissection(Third Edition)(Required) Dissection KitRequired) SpecimensR(ROVIDED 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 instructor LATER han one week following returnform exam. NO makeup exams will be given

 $Complete \ information about the \ SOIs including how to \ access the \ survey, is \ available on the \ SOI$ 

## DISSECTIONSSIGNMENT

You will work in groups <u>offWQ</u> 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 labtoria. 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 followiregroupt slide, provide a key for the previous photograph.

You are not required to do this for the lampr(#tywill 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 & NOON Youwill turn in a CDor 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.

such as word processors, spreadsheets, database management systems, or statistical packages. They will be able totind 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	Ν

10 October 19