

# Bemidji State University

## BIOL 3250: Comparative Vertebrate Anatomy

### A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: \*.\*

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Classification, adaptation, and evolutionary history of vertebrates; anatomy and functional morphology of vertebrates, including humans. Lecture and Laboratory. Prerequisites: BIOL 1211 and BIOL 1212.

**B. COURSE EFFECTIVE DATES:** 08/26/1997 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Cat: Cardiovascular System & Internal Organs
2. Cat: External Anatomy & Integument
3. Cat: Myology
4. Cat: Reproductive Systems
5. Osteology: Reptilia & Aves
6. Osteology: Fish & Amphibia
7. Osteology: Mammalia & Human Skeleton
8. Protochordates & Lamprey
9. Sheep Heart, Brain & Beef Eye
10. Cardiovascular System
11. Digestive System
12. Endocrine System & Embryology
13. Integumentary System
14. Muscular System
15. Nervous System
16. Reproductive System
17. Respiratory System
18. Sensory System
19. Skeletal System
20. Urinary System
21. Vertebrate Phylegeny

**D. LEARNING OUTCOMES (General)**

1. present one well-developed comparative vertebrate anatomy seminar to class.
2. develop acceptable laboratory dissecting techniques.
3. develop a working vocabulary of anatomical and morphological terminology
4. understand the anatomy and functional morphology of the vertebrates.
5. identify the anatomical structures of the vertebrate body systems.
6. understand the classification, adaptation, and evolutionary history of the vertebrates.

**E. Minnesota Transfer Curriculum Goal Area(s) and Competencies**

None

**F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted