

# Minnesota State University Moorhead

## BIOL 322: Vertebrate Zoology

### A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: 2

Lab Hours/Week: 3

OJT Hours/Week: \*.\*

Prerequisites:

BIOL 115 - Organismal Biology

Corequisites: None

MnTC Goals: None

This course is a survey of major vertebrate taxa, with emphasis on the evolutionary relationships among these groups and the interaction between anatomical structure and ecology.

**B. COURSE EFFECTIVE DATES:** 08/24/2009 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Classification
2. Architectural Pattern of an Animal
3. Phylum Chordata
4. The Ecology and Evolution of the following: Fishes, Amphibians, Reptiles, Birds, Mammals, Excretion/Homeostasis, Circulation/Gas Exchange, Digestion/Nutrition, Muscles, Nervous System, Sense Organs, Histology; Embryology/Development, Skeletons; Bone Histology

### D. LEARNING OUTCOMES (General)

1. To understand the biology of major vertebrate taxa and their evolutionary relationships to each other.
2. To become acquainted with the links between anatomical structure, ecological function, and evolutionary change.

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted