

Inver Hills Community College

BIOL 2301: Zoology

A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: 3

Lab Hours/Week: 1

OJT Hours/Week: *.*

Prerequisites:

This course requires the following prerequisite

BIOL 1154 - Principles of Biology I (Minimum grade: 1.67 GPA Equivalent)

Corequisites: None

MnTC Goals: Goal 02 - Critical Thinking, Goal 03 - Natural Science

Covers the morphological and physiological characteristics of animals emphasizing adaptation, evolution, and ecology. The lab component will include hands-on experience with actual animal tissue specimens as well as group projects. Prerequisites: BIOL 1154 (or equivalent) or permission of instructor. BIOL 1155 is recommended.

B. COURSE EFFECTIVE DATES: 08/25/2005 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Ecology and Biodiversity: 15%
2. Introduction to Zoology: 15%
3. Student Research Projects/Experiments: 5%
4. Survey of Major Phyla-includes comparative anatomy, physiology, behavior, ecological roles: 65%

D. LEARNING OUTCOMES (General)

1. Describe and contrast the behavior and adaptive features of representative members of each major taxonomic group
2. Explain how animals maintain their internal integrity while responding to external and internal changes
3. Associate the mode of life, adaptations, and life cycles of selected animals to successful exploitation of their environment
4. Carry out a research project that culminates in either a presentation or the writing of a scientific paper

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

Goal 02 - Critical Thinking

1. Gather factual information and apply it to a given problem in a manner that is relevant, clear, comprehensive, and conscious of possible bias in the information selected.
2. Imagine and seek out a variety of possible goals, assumptions, interpretations, or perspectives which can give alternative meanings or solutions to given situations or problems.
3. Analyze the logical connections among the facts, goals, and implicit assumptions relevant to a problem or claim; generate and evaluate implications that follow from them.

Goal 03 - Natural Science

1. Demonstrate understanding of scientific theories.
2. Formulate and test hypotheses by performing laboratory, simulation, or field experiments in at least two of the natural science disciplines. One of these experimental components should develop, in greater depth, students' laboratory experience in the collection of data, its statistical and graphical analysis, and an appreciation of its sources of error and uncertainty.
3. Communicate their experimental findings, analyses, and interpretations both orally and in writing.

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted