

Bemidji State University

BIOL 1500: Diversity of Life

A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: 0

Lab Hours/Week: 0

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: Goal 03 - Natural Science

An introduction to living organisms, with an emphasis on the basic mechanisms and concepts in organismal biology, ecology, and evolutionary biology. Topics include taxonomy and classification of the major groups of plants and animals, structure and function, development, and behavior. Intended for biology majors and minors, preprofessional students, and open to any student wishing to fulfill their Liberal Education requirement. Liberal Education Goal Area 3 (LC).

B. COURSE EFFECTIVE DATES: 08/02/2020 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Intro, How to Do Well
2. Evolution, Classification
3. Viruses, Bacteria, Fungi
4. Plants
5. Protista
6. Porifera, Cnidaria
7. Platyhelminthes
8. Nematoda
9. Mollusca
10. Annelida
11. Arthropoda
12. Echinodermata
13. Chordates

D. LEARNING OUTCOMES (General)

1. learn the 5 Kingdoms, major taxonomic groups found within these as well as representative organisms and their characteristics.
2. have a better understanding of evolution, behavior, defense and nutrient acquisition of the major groups.
3. understand the life history and reproductive strategies of the major groups of organisms.

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

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.
4. Evaluate societal issues from a natural science perspective, ask questions about the evidence presented, and make informed judgments about science-related topics and policies.

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted