

# Bemidji State University

## BIOL 4200: Freshwater Invertebrates

### A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: \*.\*

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Morphology and functional roles of representative freshwater invertebrates and their ecological interrelationships. Lecture and laboratory. Prerequisite: BIOL 1211, BIOL 1212, BIOL 3361, BIOL 3362, and junior status, or consent of instructor.

**B. COURSE EFFECTIVE DATES:** 08/26/2013 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Bivalves & Annelids
2. Bryozoans & Taridigrades
3. Cnidaria & Flatworms
4. Crustacea
5. Habitat PPT
6. Insects
7. Nematodes & Gastropods
8. Physical Environ
9. Protozoa
10. Rotifers & Nematodes

### D. LEARNING OUTCOMES (General)

1. be proficient in field techniques necessary to collect invertebrates from lotic, lentic, pelagic and numerous benthic substrates.
2. learn the major phyla, class and order of freshwater invertebrates
3. be proficient in using dichotomous keys in order to identify invertebrates to the level of order, family, genus and species.
4. learn major physical characteristics, life history and ecological roles.

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted