

# Minnesota State University Moorhead

## BIOL 321: Invertebrate Zoology

### A. COURSE DESCRIPTION

Credits: 3

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 invertebrate taxa, with some emphasis on insects. Course content includes identification of major groups and their ecology. Some emphasis will be placed on important parasites and agricultural pests. Each student will be responsible for creating a labeled collection of invertebrates.

**B. COURSE EFFECTIVE DATES:** 05/04/2004 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Classification
2. Collecting and preserving specimens
3. Study of the Ecology and Evolution of the following groups: Protozoa, Porifera, Cnidaria, Platyhelminthes, Rotifera, Nematoda, Mollusca, Annelida, Arthropoda, Onychophorans, Trilobita, Chelicerata, Insecta, Crustacea, Echinodermata, Hemichordata, Chordata

### D. LEARNING OUTCOMES (General)

1. To be able to describe the major groups of invertebrates, the phylogenetic and ecological relationships among them.
2. To be able to identify common invertebrates in the area, and to have a special appreciate for insect diversity.
3. To understand the body systems and processes of the different invertebrate groups, i.e. reproduction, digestion, elimination, circulatory, and nervous.

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted