

# Bemidji State University

## BIOL 4623: Forest Ecology

### A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: \*.\*

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Fundamentals of forest ecology, including study of tree growth, tree demography, forest community dynamics, and ecosystem processes. Students also learn to identify forest trees native to the region and basic techniques of forest stand description. Prerequisite: BIOL 2610 or consent of instructor. Might not be offered every year.

**B. COURSE EFFECTIVE DATES:** 08/24/2015 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Introduction to the fundamentals of forest ecology: how trees grow, interact, reproduce, and die.

### D. LEARNING OUTCOMES (General)

1. Identify the common forest trees of the region
2. Apply basic forest ecology concepts to contemporary management and conservation issues
3. Interpret how a tree is growing by examining its structure
4. Measure and describe a stand of trees
5. Read the history of a forested landscape from what you can see
6. Recognize and understand tree reproductive structures
7. Recognize the workings of forest dynamics processes in the features of a stand of trees

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted