

# Bemidji State University

## ED 3222: Elementary Science Methods

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: \*.\*

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Consists of 1) a process science component covering physical, earth, and life science as related to Piagetian learning theory, and 2) an environmental education component including the philosophy, objectives, methods, and materials of environmental education. Prerequisites: ED 3100 and ED 3110.

### B. COURSE EFFECTIVE DATES: 09/20/2000 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Astronomy & the Solar System Scale
2. Field Trips
3. Google Earth, Shoebox Guitar, Sink or Float & Waterworks Labs
4. Measuring Lab
5. Mentor/Practicum Observation
6. Safety
7. Science Education Philosophy
8. Science Lessons
9. Science Matters
10. Three Learning Modalities
11. Verification Lab

### D. LEARNING OUTCOMES (General)

1. learn the process science component covering physical, earth, and life science as related to Piagetian learning theory
2. understand an environmental education component including the philosophy, objectives, methods, and materials of environmental education.

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted