

Minnesota State University Moorhead

PSCI 170: Physical Science I

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 1

Lab Hours/Week: 2

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: Goal 03 - Natural Science

Activity-based conceptual learning, appropriate to the elementary classroom and to the life-long learning of physical science will be modeled in the course. Lab included. MnTC Goal 3.

B. COURSE EFFECTIVE DATES: 02/20/2002 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Simple motion.
2. Newton's Laws.
3. Energy (including heat and work).
4. Waves (including sound and light).
5. Electricity and magnetism.
6. The structure of matter and interactions of matter.
7. History, nature and process of science and engineering.

D. LEARNING OUTCOMES (General)

1. Develop and evaluate procedures to answer scientific questions about physics and chemistry.
2. Use evidence (data, observations) to form a conclusion/answer a question about physics and chemistry.
3. Choose appropriate tools and measure accurately.
4. Use explanations at the particle level to explain phenomena in the real world.
5. Apply the laws of physics and chemistry to phenomena in the real world.

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

Goal 03 - Natural Science

1. No Competencies Indicated

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted