

Minnesota State University Moorhead

GEOS 209L: Problems in Introductory Geology

A. COURSE DESCRIPTION

Credits: 2

Lecture Hours/Week: 2

Lab Hours/Week: 0

OJT Hours/Week: *.*

Prerequisites:

This course requires the following prerequisite

GEOS 109 - Processes & History of a Dynamic Planet

Corequisites: None

MnTC Goals: None

This independent study self-learning module provides a guided opportunity to practice applying concepts from GEOS 109 through science reasoning challenges, real-world geology problems, and self-guided labs and field work. Problems include exercises in mineralogy, petrology, paleontology, stratigraphy, geochemistry, structural geology, and geophysics. Online lectures provide a review and extension of concepts from GEOS 109. Pre-requisite = GEOS 109 or other college level science course.

B. COURSE EFFECTIVE DATES: 02/08/2022 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Mineralogy
2. Petrology
3. Paleontology
4. Stratigraphy
5. Geochemistry
6. Structural geology
7. Geophysics

D. LEARNING OUTCOMES (General)

1. Use and interpret observational and graphical data.
2. Understand and explain key differences between historical and physical sciences.
3. Identify key observational evidence for geological ideas.
4. Identify and interpret common rocks, minerals and fossils.

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted