

# MESABI RANGE COMMUNITY & TECHNICAL COLLEGE

## Course Outline

**Course Title:** Physical Geology  
**Semester Course Prefix and Number:** GEOL 1557  
**Old Quarter Course Prefix and Number:** GEOL 101

**Submitted By:**  
**Approval Date:**  
**Revision Date:**

**Number of Credits:** 4  
**Semester(s) Offered:**  
**Class Size:**  
Negotiated by AASC on:  
(date)

**Number of Lecture Credits:** 3  
**Number of Lab Credits:** 1      **Number of Lab Hours:**  
**Number of Studio/Demonstration/Internship Credits:**

### Course Purpose Code:

- 0 – Developmental Courses
- 1 – Non-transferable
- 2 – Technical course related to career programs
- 3 – College course which has the primary goal of applying certain concepts (e.g. vocal ensemble)
- 4 – Other college course not considered a part of MNTC (e.g. computer science, health, physical education)
- 5 – Course which is intended to fulfill the Minnesota Transfer Curriculum (MNTC) requirements or intended for transfer.
- 9 – Continuing Education/Customized Training specialized credit course (not occurring in 0-5)

### Catalog Description:

This course offers a study of the structural evolution of the earth and its land forms: study of minerals and rocks, volcanic activity, earthquakes, continental drift, and the theory of plate tectonics with an emphasis on the geology of Minnesota.

### Prerequisites and/or recommended entry skills/knowledge:

Course Prerequisite(s): None  
Reading Prerequisite: Reading Intensive  
Composition Prerequisite: None  
Mathematics Prerequisite: None

### Career Programs and Transfer Majors Accessing this Course

Earth Science related programs  
Elementary and secondary education

### Minnesota Transfer Curriculum Goal(s) partially met by this course if applicable:

(Notes: No more than two goals may be met by any one course. Curriculum Committee review and the Chief Academic Officer's approval are required.)

- |  |  |
|--|--|
| 0. <input type="checkbox"/> None   | 6. <input type="checkbox"/> The Humanities and Fine Arts           |
| 1. <input type="checkbox"/> Communications                                 | 7. <input type="checkbox"/> Human Diversity                        |
| 2. <input type="checkbox"/> Critical Thinking                              | 8. <input type="checkbox"/> Global Perspectives                    |
| 3. <input checked="" type="checkbox"/> Natural Sciences                    | 9. <input type="checkbox"/> Ethical and Civic Responsibility       |
| 4. <input type="checkbox"/> Mathematical/Logical Reasoning                 | 10. <input checked="" type="checkbox"/> People and the Environment |
| 5. <input type="checkbox"/> History and the Social and Behavioral Sciences |  |

**Learning Outcomes:** (including any relevant competencies listed in the Minnesota Transfer Curriculum)  
The student will possess a thorough understanding of how the earth was formed and how its dynamics drive current geological phenomenon. The student will understand the environmental aspects of geologic activity and its effects on man.

**Student Assessment Methods:**

Test  
Labs  
Papers on specific geological concerns.

**Use of Instructional Technology:** (includes software, interactive video and other instructional technologies):

Video tapes, field trips to local geological areas of interest.

**Outline of the major course content:**

Structure and evolution of the earth and its landforms. Study of rocks and minerals, volcanic activity, earthquakes, plate tectonics, erosion, mass wasting, glaciations, hydrology, and natural resources.

**Additional Special Information:** (special fees, directives on hazardous materials, etc.)

**Transfer Information:** (Please list colleges/majors that accept this course in transfer.)

**Approvals:**

Body	Representative Signatures	Date
Curriculum Committee		
Faculty Association		
Academic Affairs Standards Committee		
Chief Academic Officer		

**Distribution:** Original – Instructional Services  
**Copies:** Transfer Specialist, Originating Faculty Member, Records  
**Revised:** March 2010