Minnesota State University Moorhead

AST 360L: Planetary Science Laboratory

A. COURSE DESCRIPTION

Credits: 0

Lecture Hours/Week: *.*

Lab Hours/Week: 1

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This is a planetary science lab course and must be taken concurrently with AST 360.

B. COURSE EFFECTIVE DATES: 09/17/2002 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

D. LEARNING OUTCOMES (General)

1. Student can engage in critical thinking and reasoning as applied to geological and planetary problems.
2. Student can explain how we know what we know about particular aspects of our solar system.
3. Student can explain the basic causes of phases of the moon, eclipses, and seasons.
4. Student can explain the basic processes that shape a planet.
5. Student can give an overview of the various methods that can be used to infer the nature of distant planets or stars.
6. Student can interpret the likely cause of a variety of features on a planetary surface.
7. Student can read and interpret a variety of graphs and maps.
8. Student can understand and interpret clouds and wind patterns.
9. Student understands the different ways that materials behave and how changes in temperature, pressure, duration of stress, or composition might effect that behavior.
10. Students can solve a variety of problems involving chemical differentiation or changes in humidity with temperature.

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted