## **West Virginia University at Parkersburg**

Course # GEOL 102 Physical Geology Laboratory

Credit Hours: 1

Scheduled hours per week

Lecture: 2 Lab: 0

**Catalog Course Description**: The laboratory study of rocks and minerals, interpretation of topographic and geologic maps, earth structures, earthquakes, economic resources, and local geology with field trips.

Pre-requisites: None

**Co-requisites:** GEOL 101

## **Course Learning Outcomes (CLO):**

- Ability to understand, demonstrate, and analyze rocks and minerals, topographic maps, earthquakes, relative dating techniques, structural geology and maps, groundwater, glaciers and deserts, and mass wasting.
- Ability to demonstrate critical thinking and apply the scientific method to a problem or idea.
- Capability to correctly make observations and/or take measurements and use scientific formulas for problem solving.
- Communicate results of scientific investigations, analyze data and formulate conclusions.
- Use critical thinking and scientific problem-solving skills, including, but not limited to, inferring, integrating, synthesizing, and summarizing, to make decisions, recommendations and predictions.
- Work safely and collaborate with peers to carry out the scientific method.

#### **CLO Assessment Methods:**

Direct: Exams, guizzes, lab assignment, and field trips.

**Indirect Methods: Course Evaluations** 

# Topics to be studied:

- Rocks and minerals
- weathering and erosion
- running water and groundwater
- glaciers and deserts, plate tectonics

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- volcanic activity
- earthquakes
- mountain building
- geologic time, relative and radiometric dating techniques
- structural geology
- geologic and topographic maps

Relationshir	p of Course to	Program Learning	g Outcomes (Pl	LO) or	Institutional	Learning	Outcomes

Check if approved as: 
☐ Foundational Learning Course ☐ Reinforcement Learning Course

Special requirements of the course:

N/A

**Additional information:** 

N/A

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