

Print Date: 11/20/19
Spokane Community College
Course Learning Outcomes and Outline

Course Title: *Introduction to Physical Geology*

Prefix and Course Number: GEOL& 101

Course Learning Outcomes:

- Students will be able to define and articulate Earth Systems concepts and processes.
- Students will be able to demonstrate critical thinking skills and scientific methodology via examination and quantitative analysis of Earth Systems data.
- Students will be able to differentiate relationships between Earth Systems processes and the individual, local society, and global society.
- Students will be able to differentiate and interpret, using Earth Systems data, the validity of relevant societal issues dealing with topics such as Earth's atmosphere, climate, hydrosphere, resources, and hazards (public safety).
- Students will be able to formulate through either written or verbal communication their role in Earth Systems.

Course Outline:

1. Geology & Society
2. Minerals: the building blocks
3. Igneous Rocks & Processes
4. Volcanism & Volcanic Hazards
5. Sedimentary Rocks & Sedimentary Environments
6. Metamorphic Rocks & Processes
7. Geologic Time & Dating
8. Mass Wasting & Landslides
9. Running Water: rivers & streams
10. Ground & the Spokane Valley-Rathdrum Prairie Aquifer
11. Glaciers, Glacial Landforms & Ice Ages
12. Coastal Geology & Processes
13. Climate Change
14. Plate Tectonic Theory
15. Geologic Structures
16. Earthquakes Earthquake Hazards
17. Ocean Geology
18. Continents & Mountain Belts
19. Mountain Building