

NorthWest Arkansas Community College  
Division of Science & Mathematics

**GEOL 1114 General Geology**

**Catalog Description:** Survey of the geological process and products and their relationship to land forms, natural resources and the environment. Global Positioning System (GPS) field work techniques introduced. Three hours of lecture and 3 hours of laboratory weekly, including field trips.

**Prerequisite:** none

**Credit hours/ Contact hours/ Load hours:** 4/6/5

**Target Audience/ Transferability:** This course is suitable for both science and non science majors. It meets the general education requirements for a physical science (with lab) for many baccalaureate programs. Students should check with their transfer institutions to confirm how this course would be counted as part of their specific degree plan.

**Student Learning Outcomes:** Students completing this course will:

- Use the scientific method in the study of geology.
- Possess a foundation in geology prerequisite for higher level geology course.
- Relate geological principles to issues of societal relevance.
- Identify geological processes resulting in different types of landforms.
- Identify geological processes resulting in different types of rocks.
- Identify common rocks and minerals.
- Acquire a working knowledge of how to read and interpret topographical maps and aerial and satellite images.
- Demonstrate the ability to utilize Global Positioning Systems.

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**Topics:**

- Earth's interior & plate tectonics
- Chemistry & minerals
- Intrusive rocks
- Volcanic rocks
- Weathering & soils
- Sedimentary rocks
- Metamorphic rocks
- Geologic time
- Mass wasting
- Stream processes
- Ground water
- Glacial processes
- Deserts
- Coastline processes
- Structural Geology
- Earthquakes & Seismology
- The Sea Floor
- Geologic Resources

**Forms of Assessment:**

Lab practical exams should be included as part of grading