

# GEOLOGY

## Geology (GEOL)

### GEOL 2 - Physical Geology (3 units)

*Letter Grade (LG) or Pass/No Pass (P/NP) • Total hours: 51 hours lecture*

This course offers an introduction to the principles of geology with emphasis on Earth processes. It focuses on the internal structure and landscape morphology of the Earth and the processes that change it. Portions of instruction may be offered online; may also be offered fully online. [C-ID GEOL 100]

*Corequisite(s): GEOL 2L*

*Advisory: Completion of or concurrent enrollment in ENGL 1A*

*Credit transferable: Transfers to CSU & UC*

*GE Credit: CSU B1 Physical Science; IGETC 5A Physical Science; MPC B*

*Natural Sciences (must include lab)*

### GEOL 2L - Physical Geology Laboratory (1 unit)

*Letter Grade (LG) or Pass/No Pass (P/NP) • Total hours: 51 hours lab*

This course is the laboratory component to GEOL 2. It covers identification of rocks and minerals and includes topographic and geologic map exercises demonstrating the work of water, wind, ice, and gravity and the effects of tectonic activity. Portions of instruction may be offered online; may also be offered fully online. [C-ID GEOL 100L]

*Corequisite(s): GEOL 2*

*Advisory: Completion of or concurrent enrollment in ENGL 1A or ENGL 1AE*

*Credit transferable: Transfers to CSU & UC*

*GE Credit: CSU B3 Laboratory Activity; IGETC 5C Science Laboratory; MPC B*

*Natural Sciences (must include lab)*

### GEOL 3 - Historical Geology (3 units)

*Letter Grade (LG) or Pass/No Pass (P/NP) • Total hours: 51 hours lecture*

This course offers an introduction to Earth's history and the life it supports. Subjects include geologic dating, tectonics, stratigraphy, fossils, biological evolution, and the processes that have influenced planet Earth during the past 4.6 billion years. Portions of instruction may be offered online; may also be offered fully online. [C-ID GEOL 110]

*Corequisite(s): GEOL 3L*

*Advisory: Completion of or concurrent enrollment in ENGL 1A or ENGL 1AE*

*Credit transferable: Transfers to CSU & UC*

*GE Credit: CSU B1 Physical Science; IGETC 5A Physical Science; MPC B*

*Natural Sciences (must include lab)*

### GEOL 3L - Historical Geology Lab (1 unit)

*Letter Grade (LG) or Pass/No Pass (P/NP) • Total hours: 51 hours lab*

This course is the laboratory component to GEOL 3, which is an introduction to Earth's history and the life it supports. Subjects include geologic dating, plate tectonics, stratigraphy, fossils, biological evolution, and the processes that have influenced planet Earth during the past 4.6 billion years. Portions of instruction may be offered online; may also be offered fully online. [C-ID GEOL 110L]

*Corequisite(s): GEOL 3*

*Advisory: Completion of or concurrent enrollment in ENGL 1A or ENGL 1AE*

*Credit transferable: Transfers to CSU & UC*

*GE Credit: CSU B3 Laboratory Activity; IGETC 5C Science Laboratory; MPC B*

*Natural Sciences (must include lab)*

### GEOL 9 - Earth Catastrophes and Disasters (3 units)

*Letter Grade (LG) or Pass/No Pass (P/NP) • Total hours: 51 hours lecture*

This course covers the application of basic principles of Earth processes, including tectonics, erosion, climate, and wind, as well as issues of catastrophic and disastrous events from a global perspective. Topics include earthquakes, landslides, floods, severe weather, tsunamis, volcanoes, and climate change. The course emphasizes using the scientific method to interpret the causes and future probabilities of Earth catastrophes and disasters. Mitigation and adaptation measures are discussed for each hazard. Portions of instruction may be offered online; may also be offered fully online.

*Advisory: Completion of or concurrent enrollment in ENGL 1A or ENGL 1AE*

*Credit transferable: Transfers to CSU & UC*

*GE Credit: CSU B1 Physical Science; IGETC 5A Physical Science*

### GEOL 12 - Earth Ocean Climate: Introduction to Earth Science (3 units)

*Letter Grade (LG) or Pass/No Pass (P/NP) • Total hours: 51 hours lecture*

This course offers an introduction to the essentials of earth science, including the geosphere, atmosphere, hydrosphere, and solar system. It focuses on the interactions between physical and chemical systems of the Earth, such as the tectonic cycle, rock cycle, hydrologic cycle, weather, and climate. Portions of instruction may be offered online; may also be offered fully online. [C-ID GEOL 120]

*Corequisite(s): GEOL 12L*

*Advisory: Completion of or concurrent enrollment in ENGL 1A*

*Credit transferable: Transfers to CSU & UC*

*GE Credit: CSU B1 Physical Science; IGETC 5A Physical Science; MPC B*

*Natural Sciences (must include lab)*

### GEOL 12L - Earth Ocean Climate: Introduction to Earth Science Lab (1 unit)

*Letter Grade (LG) or Pass/No Pass (P/NP) • Total hours: 51 hours lab*

This is the laboratory component to GEOL 12. It includes the study of the geosphere, atmosphere, hydrosphere, and solar system. It focuses on the physical and chemical systems of the Earth, such as the tectonic cycle, rock cycle, hydrologic cycle, weather, and climate. Portions of instruction may be offered online; may also be offered fully online. [C-ID GEOL 120L]

*Corequisite(s): GEOL 12*

*Advisory: Completion of or concurrent enrollment in ENGL 1A or ENGL 1AE*

*Credit transferable: Transfers to CSU & UC*

*GE Credit: CSU B3 Laboratory Activity; IGETC 5C Science Laboratory; MPC B*

*Natural Sciences (must include lab)*