

# GEOLOGY

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Cascade Campus  
Jackson Hall (JH), Room 210  
971-722-5209

Rock Creek Campus  
Building 7, Room 202  
971-722-7500

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Science Technology Building (ST), Room 312  
971-722-4174

[www.pcc.edu/programs/geology](http://www.pcc.edu/programs/geology)

## DESCRIPTION

Geology is the study of the Earth: its composition, structure, history and the processes which shape the Earth. Geologists investigate landscapes and rocks to discover the story of how the Earth formed and developed over geologic time. Geologists examine problems related to earth hazards, resources and environmental quality and then work toward developing corrective measures. Geology coursework is an important part of many college programs.

The G 201, G 202, G 203 courses introduce students to the study of geology while preparing them for further study in the earth science field and include a lab component. The G 207, G 208, G 209 courses introduce students to specific topics within geology and do not include a lab component. The G 160, G 161, G 200 field experience courses use fieldtrips to introduce students to the regional geology of the Pacific Northwest. Geology courses can be taken individually or in any sequence and have no course specific prerequisites. See the Course Description (G prefix) section of this catalog for individual Geology courses and their prerequisites.

## COURSE DESCRIPTIONS

**G 160 Geology: Oregon Coast 2.00** Designed to introduce the relationships between the biology and geology of the Oregon Coast.

**G 161 Geology: Malheur Region 2.00** This field trip experience is designed to introduce the relationships between the biology and geology of the Malheur geographical area.

**G 200 Field Studies:** Introduces basic concepts in geology through field experience. Includes both lecture and field components. Content varies based on site location. Students may repeat for credit with different sites. Prerequisite or concurrent enrollment: G 201 or instructor permission.

**G 201 Physical Geology 4.00** Introduces physical geology which deals with minerals, rocks, internal structure of the earth and plate tectonics. Prerequisite: WR 115, RD 115 and MTH 20 or equivalent placement test scores. Audit available.

**G 202 Physical Geology 4.00** Introduces physical geology which deals with mass wasting, streams, glaciers, deserts, beaches, groundwater, and use of topographic maps. Prerequisite: WR 115, RD 115 and MTH 20 or equivalent placement test scores. Audit available.

**G 203 Historical Geology 4.00** Introduces historical geology which deals with geologic time, fossils, stratigraphic principles, and the geologic history of the North American continent. Prerequisite: WR 115, RD 115 and MTH 20 or equivalent placement test scores. Audit available.

**G 207 Geology of the Pacific Northwest 3.00** Introduces the regional geology of the Pacific Northwest with emphasis on Oregon geology. Includes basic geologic principles, earth materials and geology of Pacific Northwest provinces. Prerequisite: WR 115, RD 115 and MTH 20 or equivalent placement test scores. Audit available.

**G 208 Volcanoes and Their Activity 3.00** Covers the origin, activity, products, classification and hazards of volcanoes. Prerequisite: WR 115, RD 115 and MTH 20 or equivalent placement test scores. Audit available.

**G 209 Earthquakes 3.00** Covers the nature and origin of earthquakes, the characteristics of seismic waves, how earthquakes are measured, the hazards of earthquakes and the historical and geological record of earthquakes. Prerequisite: WR 115, RD 115 and MTH 20, or equivalent placement test scores. Audit available.

**G 291 Elements of Rocks and Minerals 4.00** Introduces the study of rocks and minerals that includes their classification, origin and identification. Recommended for persons interested in rock and mineral collecting, mining and prospecting. Prerequisite: WR 115, RD 115, MTH 20 or equivalent placement test scores. Audit available.