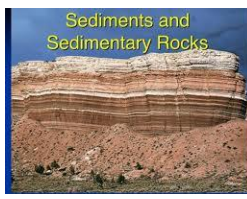
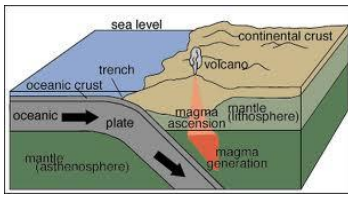


# PHYSICAL SCIENCE – GEOLOGY



Course covers the science of our Earth. Minerals, rocks, plate tectonics, volcanoes, earthquakes, glaciers, streams, coasts, caves, deserts, and geologic hazards will be examined, with an emphasis on the Pacific Northwest. This one-term survey course may be part of a year's sequence in physical science for college transfer credit.

GS-106, CRN #30822, 4 credits. Lecture and Laboratory sessions each day, plus one local geologic field trip (class time).

Dates: Tuesday and Thursday mornings, 10 am – 1:50 pm, **Summer Quarter 2022**, 8 weeks (starting June 28th).

Where: PCC-Cascade (705 N. Killingsworth St) – Johnson Hall 100; Tuesday Lecture (in-person/Zoom), Thursday Lab (in-person)

Textbook: **Essentials of Geology**, 5<sup>th</sup> Edition (2016), by Marshak (ISBN 978-0393263398)

Instructor: Prof. Kyle Dittmer, office (503) 731-1314 (day time), email: kyle.dittmer@pcc.edu

## COURSE TOPICS:

### Introduction

- Scientific Method
- Branches of Geology
- History of Geology
- Geological Time
- Early Earth

### Plate Tectonics

- Continental Drift
- Plate Tectonics (and film)
- Volcanoes (and film)
- Earthquakes (and film)

### Minerals and Rocks

- Minerals and their properties
- Rock Cycle
- Igneous Rocks...and processes
- Sedimentary Rocks...and processes
- Metamorphic Rocks...and processes
- Weathering and Soils

### Mountain Building

- Types of mountains (PNW examples)
- Process of mountain formation
- Relationship to Plate Tectonics

### Geomorphology - Landforms

- Hydrologic Cycle
- Rivers...drainage basins
- Glaciers...processes and landforms (and film)
- Deserts...processes and landforms
- Groundwater, Karst, Caves...processes and landforms (and film)

### Other topics

- Natural Hazards – landslides, floods, volcanic eruptions (and film)
- Geologic Resources (and film)

It's easy to register! To register online, go to: <http://www.pcc.edu/enroll/registration/>. You can also register by calling 971-722-8888. You will need to know the 5-digit CRN for the class you want to take.

PCC is committed to supporting all students. If you need accommodations for a disability, please contact PCC Disability Services. Web: [pcc.edu/disability](http://pcc.edu/disability); Email: [disability.services@pcc.edu](mailto:disability.services@pcc.edu); Phone: 971-722-4341; Video Phone: 503-928-5875.



### You May Be Eligible For a Tax Credit

Based on the Taxpayer Relief Act of 1997, you may qualify for an educational tax credit. For more information, please contact a tax advisor, call the IRS at 1-800-829-1040 or visit the PCC web site at: [www.pcc.edu/enrolling/tax.htm](http://www.pcc.edu/enrolling/tax.htm)

