

Geo 101: Physical Geology

Instructor:

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Office Hours: Sun Tue Thu 11:00 am –12:00 pm

Course Information:

Meeting Time: Sun Tue Thu 10:00–10:50 am

Credits: 4 hours (3+1)

Reference Book: An Introduction to Physical Geology, 8th Edition by Edward J. Tarbuck and Frederick K. Lutgens

Course Description:

Introduction to physical geology and minerals, volcanism and intrusive igneous rocks, weathering, soil, sediments and sedimentary rocks, metamorphism and metamorphic rocks, water courses and groundwater, glaciers and glaciations, deserts and coasts, geological structures, earthquakes, plate tectonics, mountain belts and continental growth, earth resources.

Learning Goals:

By the end of this course, students will understand the basic of the physical and chemical processes that occur on and within the Earth, the sources of energy that drive these processes, and how these processes have given rise to present state of the Earth through time, and how they continue to act to affect our everyday lives.

Grades:

Based on the following:

▪ Exam 1	20%
▪ In-class quizzes	5%
▪ Field trip and homework assignments	5%
▪ Lab assignments	30%
▪ Final Exam	40%

Course Topics:

- Introduction to Geology
- Matters and Minerals
- Igneous Rocks
- Sedimentary Rocks
- Metamorphic Rocks
- Plate Tectonics
- Volcanic Activity
- Geologic Time
- Mountain Building