

Physical Geology

Class

GEOL 1403

Principles of physical and historical geology. Study of the earth's composition, structure, and internal and external processes. Includes the geologic history of the earth and the evolution of life. Three (3) hours lecture and three (3) hours lab per week. This course does meet the Weatherford College requirement for core transfer curriculum.

Course Learning Objectives

- A. Develop an appreciation for the basic geological processes and their effect on the Earth.
- B. Develop an appreciation for the geological processes that create physiographic features.
- C. Relate the geologic processes to potential hazards.
- D. Describe or identify physiographic features of the earth.
- E. Identify the principle minerals and rocks that compose the earth.
- F. Describe the tectonic and climatic forces that shape the earth.

Required Textbooks

Geology: Earth in Perspective, 3e by Wicander/Monroe. ISBN 9780357068106 - Bundle: Geology in Perspective, Loose-leaf version, + MindTap Printed Access Card. ISBN 9780357117422 - MindTap Printed Access Card for Geology: Earth in Perspective, 3e

Lab Text

Insights in Earth Science 5th Ed. by Clair Russel Ossian

Evaluation Standards

A minumun of three lecture tests and numerous lab practicals will provide the basic evaluation. The lab grade will comprise 25% of the finale grade. Participation in class and lab will effect the final grade by as much as 30%.

Grades:

90 - 100 = A

80 - 89 = B

70 - 79 = C

60 - 69

Below 60 = F

Instructional Methods

Lecture and Laboratory will be intermixed so that the minerals, rocks, maps, air photographs, structural models, etc. will directly enhance the lecture material.

Disabilities

ADA Statement:

Any student with a documented disability (e.g. learning, psychiatric, vision, hearing, etc.) may contact the Office on the Weatherford College Weatherford Campus to request reasonable accommodations. *Phone:* 817-598-6350
Office Location: Office Number 118 in the Student Services Building, upper floor. *Physical Address:* Weatherford College 225 College Park Drive Weatherford, TX.

Academic Integrity

Academic Integrity is fundamental to the educational mission of Weatherford College, and the College expects its students to maintain high standards of personal and scholarly conduct. Academic dishonesty of any kind will not be tolerated. Academic dishonesty includes, but is not limited to, cheating on an examination or other academic work, plagiarism, collusion, and the abuse of resource materials including unauthorized use of Generative AI. Departments may adopt discipline specific guidelines on Generative AI usage approved by the instructional dean. Any student who is demonstrated to have engaged in any of these activities will be subject to immediate disciplinary action in accordance with institutional procedures.

Lab Fee

\$24.00