

Historical Geology Lecture

Class

GEOL 1404

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. Understand the basic geological processes and how they have shaped the Earth over time.
- B. Understand the biological and paleontological principles in the development of life.
- C. Understand the climatic history of this planet.
- D. Relate the stratigraphic sequence of sediments and fossils of an area to its history.
- E. Relate the change in biological succession and climate to the world today.
- F. Relate why the present day physiographic features exist and their relation to the areas history.

Required Textbooks

Historical Geology, 8e Wicander/Monroe. Bundle: Loose-leaf Textbook + MindTap Printed Access Card for Historical Geology, 8e. ISBN 9781305395008 – MindTap Printed Access Card for Historical Geology, 8e

Lab Text

Insights in Earth Science 5th ed. by Clair Russel Ossian, Geological Highway Map of Texas by the American Association of Petroleum Geologists

Evaluation Standards

A minimum 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 affect 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 rocks, fossils, and maps will directly enhance the lecture material. One or two field trips to local fossil sites or geological phenomena not locally found may be planned when appropriate.

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