

Department Syllabus
GEOL 1302
Earth Sciences for Non-Science Majors II - Lecture
Western Texas College

I. Basic Course Information:

- A. Course Description: Extension of the study of geology, astronomy, meteorology, oceanography, focusing on the natural resources, hazards and climate variability.
- B. Prerequisites: GEOL 1301 or 1401 Earth Science I, or GEOL 1303 or 1403 Physical Geology. Recommended Co-requisite: GEOL 1102 Earth Sciences for Non-Majors II (lab). Students must be able to read and comprehend on the college level.
- C. Online course content is administered through the college's learning management system (LMS), D2L or Bright Space. Type in learn.wtc.edu to access this system

II. Student Learning Outcomes (SLO)

- A. Identify the influence of geologic and hydrologic processes on Earth's surface.
- B. Describe the causes and effects of tectonic, meteorological, oceanographic, and astronomical hazards.
- C. Relate climate change to changes in tectonic configurations, astronomical relationships and atmospheric composition.
- D. Discuss potential effects of climate variability on Earth systems, including biological systems.
- E. Recognize how scientific models represent an abstraction of complex systems, such as ocean circulation and climate variability.
- F. Describe natural resources used by humans and their occurrence and extraction.
- G. Discuss the effects of renewable and nonrenewable resource development and sustainability.

III. Testing Requirements

- A. The comprehensive midterm and final exams must be proctored by an approved testing organization. (Ask your instructor for details.)
- B. Students are NOT allowed to use their book while taking proctored exams. Students will be allowed one sheet of notebook paper with notes to be used on the exam only. Students are NOT allowed to use cell phones or access the Internet during the exams.
- C. Students may use their book on all quizzes.

IV. Major Course Requirements

- A. Major Requirement 1 – There will be a proctored midterm exam.
- B. Major Requirement 2 – There will be a proctored final exam.
- C. Major Requirement 3 – There will be a non-proctored quiz over each chapter (7 total), 2 Content Assignments, and a syllabus quiz.
- D. Major Requirement 4 – There will be a Teamwork Research Project

V. Grading Assessments

- A. Chapter Quizzes and Assignments 40%, Teamwork Research Project 20%, Midterm exam 20%, and Final Exam 20%.
- B. Final Grade: A = 90-100, B = 80-89, C = 70-79, D = 60-69, F = 59 and below.

VI. Information Books and Other Course Materials

- A. Required Book: Foundations of Earth Science, 8th Edition, Lutgens, 2017
PRINT ISBN: 9780134184814, ETEXT ISBN: 9780134294827

VII. Other Policies, Procedures and important dates. Click this link

<http://www.wtc.edu/publications.html> then on the appropriate catalog to find the following information.

- A. Campus Calendar
- B. Final exam schedule
- C. How to drop a class
- D. Withdrawal information
- E. Student Conduct/Academic Integrity
- F. Class Attendance
- G. Students with disabilities

VIII. Planned Course of Study

- A. Lecture

Areas To Be Covered
Chapter 3 – Landscapes fashioned by water, Mass wasting, Hydrologic cycle
Chapter 4 – Glacial and Arid Landscapes
Chapter 6 – Earthquakes and seismology
Chapter 7 – Volcanism and igneous activity
Chapter 10 – Introduction of Oceanography
Chapter 11 - Earth's Atmosphere
Chapter 12 – Moisture, Clouds and Precipitation

Note: Schedule and content of the course are subject to change at the instructor's discretion.