

El Paso Community College

Syllabus

Part II

Official Course Description

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| SUBJECT AREA | <u>Geology</u> |
| COURSE RUBRIC AND NUMBER | <u>GEOL 1304</u> |
| COURSE TITLE | <u>Historical Geology</u> |
| COURSE CREDIT HOURS | <u>3 3 0</u> |
| | Credits Lec Lab |

I. **Catalog Description**

Studies the history of earth and its life with a critical focus on principles of historical geology. Recommended for students majoring in science or engineering. Requires a one-day field trip.
Prerequisite: GEOL 1303 and 1103. Corequisite: GEOL 1104. (3:0).

II. **Course Objectives**

By the end of the course the student will be able to:

- A. Explain the theories and constraints concerning the origin of the universe and our solar system including the sun and the planets.
- B. Write the geologic time scale.
- C. Apply the principles of relative age dating to cross sections or block diagrams.
- D. Use the radioactive decay curve to determine the age given parent/daughter data.
- E. Describe theories on the origin and evolution of life on earth and the significance of fossils.
- F. Identify and use fossils and the geologic record to study and interpret environments.
- G. Be able to identify the basic depositional environments and their sedimentary rocks.
- H. Be able to correlate stratigraphic columns and recognize transgressive and regressive sequences.
- I. Describe the evolution of the earth from the Precambrian to the Recent in terms of tectonics and paleontology.
- J. Describe the evolution of man.
- K. List the basic physical and chemical processes in oceanography with emphasis on describing the processes at the mid-ocean ridges and shorelines.

III. **Evaluation**

The procedure for determining the final grade will be decided by the instructor and presented to the student in the syllabus.

LECTURE

- A. Exams and Quizzes. The number, frequency and type of quizzes and exams are left to the discretion of the instructor.

B. Grading:

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| Above 90 | =A |
| 80-89.9 | =B |
| 70-79.9 | =C |
| 60-69.9 | =D |
| Below 60 | =F |

IV. Disability Statement (American with/Disabilities Act [ADA])

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Room C-112 (831-2426); TM Room 1400 (831-5808); RG Room B-201 (831-4198); NWC Room M-54 (831-8815); and MDP Room A-125 (831-7024).

V. 6 Drop Rule

Students who began attending Texas public institutions of higher education for the first time during the fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.