

# El Paso Community College

## Syllabus

### Part II

## Official Course Description

|                                 |   |
|---------------------------------|---|
| <b>SUBJECT AREA</b>             | <u>Geology</u>                                |
| <b>COURSE RUBRIC AND NUMBER</b> | <u>GEOL 1402</u>                              |
| <b>COURSE TITLE</b>             | <u>Principles of Geology</u>                  |
| <b>COURSE CREDIT HOURS</b>      | <u>4 Credits      3 Lec      :      2 Lab</u> |

### I. Catalog Description

Studies the earth as a planet, including an introduction to astronomy and oceanography. Provides a survey of the history of the earth through time, as evidenced by plants, animals, rocks, and minerals. Not open to students who have completed GEOL 1403 and/or GEOL 1404. Lab required. **Prerequisite: GEOL 1401. (3:2). Lab fee.**

### II. Course Objectives

Upon satisfactory of this course, the student will be able to:

- A. Explain the Big Bang Theory of the origin of the universe and explain the origin of the solar system and describe the characteristics of the planets.
- B. Apply the principles of relative age dating to cross sections or block diagrams.
- C. Use the radioactive decay curve to determine the age given parent/daughter data.
- D. Explain the theories on the origin and evolution of life on earth and the significance of fossils.
- E. Describe the economic value of banded iron formations, petroleum reserves and other ore deposits.
- F. Identify and use fossils and the geologic record to interpret past, present, and future environments.
- G. Correlate stratigraphic columns and recognize transgressive and regressive sequences.
- H. Describe the evolution of man.
- I. Explain the evolution of the Earth's major tectonic and paleontological features from the Precambrian to the Recent.
- J. List the basic physical and chemical processes in oceanography with emphasis on describing the processes at the mid-ocean ridges and shorelines.
- K. List the eons, eras, and periods of the Geologic Time Scale.

### III. Evaluation

Both laboratory and lecture material may be on the same exam. Or the instructor may choose to conduct separate exams. 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:

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

LABORATORY

Lab exercises are required for each unit. Homework and papers may be assigned, corrected and graded as the instructor decides.

**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.