

El Paso Community College
Syllabus
Part II
Official Course Description

SUBJECT AREA	<u>Geology</u>
COURSE RUBRIC AND NUMBER	<u>GEOL 1303</u>
COURSE TITLE	<u>Physical Geology (Lecture) (C) (MNS)</u>
COURSE CREDIT HOURS	<u>3 3 :</u> Credits Lec Lab

I. Catalog Description

Introduction to the study of critical materials and resources, and the physical processes that have modified and shaped the surface and interior of the Earth over time. These processes are described by theories based on experimental data and geologic data gathered from field observations. Intended for majors in science, engineering, or business; or for enhanced geological learning compared to GEOL 1301. Requires a one-day field trip and/or special project analysis. **Prerequisite: Placement at College Level Reading or Writing by TSIA or equivalent; OR completion with a “C” or better or concurrent enrollment in the following: INRW 0311 or INRW 0312 or ESOL 0340. Corequisite: GEOL 1103. (3:0).**

II. Course Objectives

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

- A. Describe how the scientific method has led to our current understanding of Earth’s structure and processes.
- B. Interpret the origin and distribution of minerals, rocks and geologic resources.
- C. Describe the theory of plate tectonics and its relationship to the formation and distribution of Earth’s crustal features.
- D. Quantify the rates of physical and chemical processes acting on Earth and how these processes fit into the context of geologic time.
- E. Communicate how surface processes are driven by interactions among Earth’s systems (e.g., the geosphere, hydrosphere, biosphere, and atmosphere).
- F. Identify and describe the internal structure and dynamics of Earth.
- G. Describe the interactions of humans with Earth (e.g., resource development or hazard assessment).
- H. Students will produce a research project presentation in which they will analyze, evaluate, and synthesize a topic given by the instructor. The topic will allow the students to demonstrate creativity, innovation and inquiry as well as analysis, interpretation and synthesis of information. Upon successful completion of the project, students will demonstrate the following skills:

1. **Critical thinking skills:** Students will engage in creative thinking, innovation, and inquiry, and demonstrate analysis, evaluation, and synthesis of information.
2. **Communication skills:** Students will demonstrate effective written, oral, and visual communication.
3. **Teamwork skills:** Students will demonstrate that they are able to work effectively with others, to consider different point of view, to support a common purpose or goal, and to reach a conclusion.
4. **Empirical and Quantitative skills:** Students will demonstrate successful manipulation and analysis of numerical data or observable facts, resulting in informed conclusions.

III. THECB Learning Outcomes (ACGM)

Upon successful completion of this course, students will:

1. Describe how the scientific method has led to our current understanding of Earth's structure and processes.
2. Interpret the origin and distribution of minerals, rocks and geologic resources.
3. Describe the theory of plate tectonics and its relationship to the formation and distribution of Earth's crustal features.
4. Quantify the rates of physical and chemical processes acting on Earth and how these processes fit into the context of geologic time.
5. Communicate how surface processes are driven by interactions among Earth's systems (e.g., the geosphere, hydrosphere, biosphere, and atmosphere).
6. Identify and describe the internal structure and dynamics of Earth.
7. Describe the interaction of humans with Earth (e.g., resource development or hazard assessment).

IV. 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:

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

V. Disability Statement (Americans 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)

VI. 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.

VII. Title IX and Sex Discrimination

Title 9 (20 U.S.C. 1681 & 34 C.F.R. Part 106) states the following "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any educational program or activity receiving Federal financial assistance." The Violence Against Women Act (VAWA) prohibits stalking, date violence, sexual violence, and domestic violence for all students, employees and visitors (male and female). If you have any concerns related to discrimination, harassment, or assault (of any type) you can contact the Assistant to the Vice President for Student and Enrollment Services at 915-831-2655. Employees can call the Manager of Employee Relations at 915-831-6458. Reports of sexual assault/violence may also be reported to EPCC Police at 915-831-2200.