

PALOMAR COLLEGE
COURSE OUTLINE OF RECORD FOR
DEGREE CREDIT COURSE

 X Transfer course X A.A. degree applicable course

COURSE NUMBER AND TITLE: GEOLOGY 150 - Dinosaurs and Earth History

UNIT VALUE: 3

MINIMUM NUMBER OF SEMESTER HOURS: 48

BASIC SKILLS REQUIREMENT:

Appropriate language skills

ENTRANCE REQUIREMENTS:

PREREQUISITE: Geology 100, or 125 or 110

COREQESITE: None

RECOMMENDED PREPARATION: None

SCOPE OF COURSE:

Principles of historical geology. The origin and evolution of Earth and its biosphere, incorporating plate tectonics, stratigraphy, paleontology, and geologic dating.

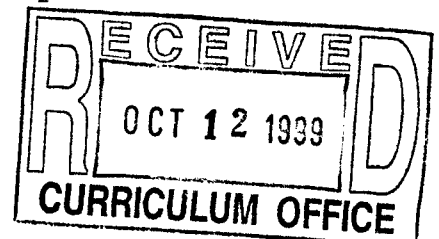
SPECIFIC COURSE OBJECTIVES:

The successful student will be able to:

1. analyze the terrestrial environment by examining the organic, environmental and tectonic history of the Earth by building upon knowledge gained in previous classes.
2. synthesize the regional geology of North America.
3. describe ones home planet in both formal and informal terms.
4. use critical thinking by detailed application of the scientific method to problems in earth history.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

Introduction and geologic time
 Principles of stratigraphy I (Origin & classification of sedimentary rocks)
 Principles of stratigraphy II (Stratigraphic relationships)
 Principles of stratigraphy III (Environmental controls)
 Principles of paleontology I (modes & fossilization)
 Principles of paleontology II (Bases of evolution) (Extinctions)
 Principles of paleontology III (Common fossil groups)
 Global tectonics
 Earth's origin
 Precambrian
 Paleozoic I (Cambrian---Devonian)
 Paleozoic II (Mississippian---Permian)
 Mesozoic I (Triassic and Jurassic)



Mesozoic II (Cretaceous)
Tertiary
Quaternary

REQUIRED READING:

Stanley, Steven M. Exploring Earth & Life Through Time. New York:
W. H. Freeman & Co., 1993.

SUGGESTED READING:

Selected handouts of current articles in geoscience journals.

REQUIRED WRITING:

A written 3 page essay assignment will be required for all students.

OUTSIDE ASSIGNMENTS:

Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short term classes.

A three day field trip is offered. All students must complete an essay requiring library research for written assignment (see above). Students are also expected to read the text, study lecture notes and prepare for exams.

INSTRUCTIONAL METHODOLOGY:

lecture
 laboratory
 lecture-laboratory combination
 directed study

This course may be offered as a telecourse and meets Title 5 regulations 55370, 55372, 55374, 55376, and 55378. Yes No X

The course is presented in a lecture format but discussion is encouraged at all times within the classroom.

GRADING POLICY AND STANDARDS (include methods for determining whether the stated objectives have been met by students):

Examinations are subjective/objective combinations of short answer, essay and drawings. The final exam is objective. Exams are worth 100 points each, essay 50 points.

IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?

YES ___ NO Number of times course may be taken for credit: 1

If yes, identify specific provision of Division 2 section(s) 55761-55763 and 58161 which qualifies course as repeatable.

CONTACT PERSON:

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