

**PALOMAR COLLEGE**  
**COURSE OUTLINE OF RECORD FOR**  
**DEGREE CREDIT COURSE**

X Transfer Course   X A.A. Degree applicable course  
(check all that apply)

**COURSE NUMBER AND TITLE:** GEOLOGY 100L. Basic Geology Laboratory

**UNIT VALUE:** 1

**MINIMUM NUMBER OF SEMESTER HOURS:** 48

**BASIC SKILLS REQUIREMENTS:**

Appropriate language and computational skills.

**ENTRANCE REQUIREMENTS**

**PREREQUISITE:** Completion of or concurrent enrollment in Geology 100.

**COREQUISITE:** none

**RECOMMENDED PREPARATION:** none

**SCOPE OF COURSE:**

Laboratory and field identification of rocks and rock forming minerals. Study of geologic processes by means of geologic and topographic maps. Satisfies laboratory requirement in physical science. May be offered as a field laboratory.

**SPECIFIC COURSE OBJECTIVES:**

The successful student will:

1. be able to identify on sight, with the aid of geologic charts, a variety of common minerals, igneous rocks, sedimentary rocks and metamorphic rocks.
2. be able to describe which geomorphic processes have sculpted a landscape by studying either topographic maps or air photographs of that landscape.
3. be able to identify in cross-section and on geologic maps the various types of folds, faults and unconformities as well as give the sequential geologic history of the area diagramed.

**CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:**

Introduction/mineral properties

Rock forming minerals

Ore minerals

Igneous rocks

Sedimentary rocks

Metamorphic Rocks

Topographic maps  
Fluvial Erosion  
Deserts/volcanic landforms  
Glaciers  
Shorelines  
Structural Geology I  
Structural Geology II  
Geologic Maps

**REQUIRED READING:**

Busch, Richard M., Ed., Laboratory Manual in Physical Geology. AGI/NAGT, 6<sup>th</sup> edition (or most recent edition). Upper Saddle River, New York: Prentice Hall, 2002.

**SUGGESTED READING:**

Monroe, J.S., and Wicander, R., Physical Geology, 4<sup>th</sup> edition, Brooks/Cole Publishers, Pacific Grove, California, 2001.

**REQUIRED WRITING:**

13 lab assignments of 4 pages each and 4 quizzes of one page each are to be written with college level accuracy with respect to grammar, syntax and content.

**OUTSIDE ASSIGNMENTS:**

Prior to each laboratory session, the student will need to read the preface to the lab in the lab manual as well as read the appropriate sections in the lecture text and review his or her lecture notes.

**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.**

**INSTRUCTIONAL METHODOLOGY:**

**Check all that apply:**

- lecture  
 laboratory  
 lecture-laboratory combination  
 directed study

In a laboratory setting, each lab session begins with a brief lecture on the subject matter followed by an explanation of the laboratory procedure. May be offered as a field laboratory.

**DISTANCE LEARNING:**

**This course may be offered as a distance learning course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380.**

Yes  No

**If yes, check all that apply:**

- Television Course (Video one-way, e.g. ITV, video cassette, etc.)  
 Online Course (Text one-way, e.g. newspaper, correspondence, electronic file, etc.)

- \_\_\_\_\_ Two-Way Video Conferencing (Two-way interactive video and audio)
- \_\_\_\_\_ One-Way Video Conferencing (One-way interactive video and two-way interactive audio)
- \_\_\_\_\_ Computer Assisted Instruction (A specialized form of mediated instruction relying primarily on student access to information and prepared lessons or teaching materials through a computer terminal, but not under immediate supervision of a qualified instructor.)

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

Written lab assignments account for 40% and written quizzes account for 60% of the student's grade.

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

Yes \_\_\_\_\_ No X Number of times course may be taken for credit: \_\_\_\_\_

If yes, identify specific provision of Title 5 Division 2 section(s), 55761-55763 and 58161 which qualifies course as repeatable:

**CONTACT PERSON:**

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**SIGNATURES ON FILE:**