

PALOMAR COLLEGE
COURSE OUTLINE OF RECORD FOR
DEGREE CREDIT COURSE

X Transfer course X A.A. degree applicable course

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 rockforming minerals. Study of geologic processes by means of geologic and topographic maps. Satisfies laboratory requirement in physical science.

SPECIFIC COURSE OBJECTIVES:

The successful student will:

1. be able to identify on sight, with the aid of geologic charts, 36 minerals, 24 igneous rocks, 24 sedimentary rocks, and 24 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, 4th edition. New York: Prentice-Hall, 1997.

SUGGESTED READING:

C.C. Plummer and D. McGeary. Physical Geology 4th ed. New York:
William C. Brown Publishing, 1993.

REQUIRED WRITING:

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

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.

Prior to each laboratory section, 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. Approximately 3 hours per week of outside preparation will be required.

INSTRUCTIONAL METHODOLOGY:

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 explanation of the laboratory procedure.

This course may be offered as a telecourse and meets Title 5 regulations 44370, 55372, 55374, 55376, and 55378. Yes No

telecourse
 mediated instruction
 computer assisted instruction

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

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

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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