

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:**

PHSC 116 - Physical Science--Chemistry & Earth Sciences (Lecture)

**UNIT VALUE:** 3

**MINIMUM NUMBER OF SEMESTER HOURS:** 48

**BASIC SKILLS REQUIREMENTS:**

Appropriate language and computational skills.

**ENTRANCE REQUIREMENTS:**

**PREREQUISITE:** None

**COREQUISISTE:** None

**RECOMMENDED PREPARATION:** None

**SCOPE OF COURSE:** The study of selected topics from the fields of chemistry, earth sciences, and their related sciences through lectures, films, demonstrations, and laboratory exercises. A general education course designed particularly for non-science majors; not open to majors in physics, chemistry, or engineering. Especially recommended for teacher training.

**SPECIFIC COURSE OBJECTIVES:**

The successful student will be able to:

1. Demonstrate a general conceptual understanding of introductory physical science (chemistry and earth sciences) which is intended for students who are not majoring in science, engineering, or related fields.
2. Identify, analyze, and explain various physical science concepts and principles.
3. Apply the various physical science concepts and principles.
4. Analyze and solve selected physical science principles.

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

**CHEMISTRY:**

1. Basic chemistry concepts
2. Periodic table
3. Chemical interactions and reactions

**EARTH SCIENCES:**

1. Rocks and minerals
2. The earth's internal properties
3. Plate tectonics, faults, and earthquakes
4. Volcanoes
5. Desert
6. Glacier
7. Meteorology
8. Oceanography

**REQUIRED READING:**

Hewitt, Paul, John Suchocki and Leslie A. Hewitt. Conceptual Physical Science. New York: Harper Collins. 1994.

**SUGGESTED READING:**

Hewitt, Paul, John Suchocki and Leslie A. Hewitt. Practicing Conceptual Physical Science. 1<sup>st</sup> edition. New York: Harper Collins. 1994.

Articles from science periodicals or other sources as recommended by the instructor.

**REQUIRED WRITING:**

Problem-solving exercises on homework assignments and written tests are more appropriate.

**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.

Preparation may include such activities as readings in assigned text, review of lecture material, solving assigned problems, and answering assigned questions.

**INSTRUCTIONAL METHODOLOGY:**

Check all that apply:

- lecture
- laboratory
- lecture-laboratory combination
- directed study

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

Yes \_\_\_ No

If yes, check all that apply. (See guidelines for preparation for definitions.)

- telecourse
- mediated instruction
- computer assisted instruction

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

Homework assignments	0 - 20%
Exams	50 - 75%
Final exam	20 - 40%

**IS THE 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 title 5 Division 2 section(s) 55761-55763 and 58161 which qualifies course as repeatable:

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