

**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:** GEOGRAPHY 100L – Physical Geography Lab

**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, GEOGRAPHY 100

**COREQUISITE:**

**RECOMMENDED PREPARATION:**

**SCOPE OF COURSE:**

Laboratory and field investigations in weather elements, climate regions, soils, world ecosystems, and the earth's landform features. *Satisfies laboratory requirement in physical science.* CSU; UC

**SPECIFIC COURSE OBJECTIVES:** Successful students will be able to:

1. Interpret and analyze maps as an essential informational and research tool of physical geographers.
2. Apply hands-on experience with various materials as a means of analyzing and deducing information about various subjects in physical geography.
3. Conceptually integrate climate, soils, vegetation patterns, and basic landforms with each recognized as part of an overall earth system.
4. Compare and contrast the interrelationships between elements in varied physical landscapes.
5. Analyze and apply the scientific method as a research methodology applicable in a wide range of scientific investigations.

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

- I. Basic concepts in physical geography
  - A. Earth/sun relationships
  - B. Coordinate systems
  - C. Map scales

- II. Meteorology
  - A. Energy budget
  - B. Air pressure and atmospheric circulation
  - C. Adiabatic heating and cooling
  - D. Relative humidity
  - E. Interpreting weather maps
  - F. Climate and climate classification
  
- III. Topographic map interpretation
  
- IV. Biogeography
  - A. Ecological relationships
  - B. World biomes
  
- V. Soils
  
- VI. Landform development
  - A. Plate tectonics
  - B. Diastrophism
  - C. Fluvial processes and related landforms
  - D. Processes and landforms in arid environments
  - E. Coastal processes and related landforms
  - F. Glacial processes and related landforms
  
- VII. Geographic technologies

**REQUIRED READING:**

Key, Douglas and Jain, Catherine. Laboratory and Field Exercises in Physical Geography. 2<sup>nd</sup> edition. Boston, MA: Pearson Custom Publishing, 2002.

**SUGGESTED READING:**

McKnight, Tom L. and Hess, Darrel. Physical Geography: A Landscape Appreciation. 7<sup>th</sup> edition. Upper Saddle River, NJ: Prentice Hall, 2002.

**REQUIRED WRITING:**

All lab assignments and quizzes are primarily written in essay and short answer format.

**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 suggested text, review of lecture material, assigned take-home projects, and preparation for lab exercises and quizzes.

**INSTRUCTIONAL METHODOLOGY:**

**Check all that apply:**

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

**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 X

**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):

Lab and field trip exercises total approximately 60% of the semester grade.

Three to four quizzes total approximately 40% of the semester grade.

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

Yes \_\_\_ No X 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:

**CONTACT PERSON:**

Douglas B. Key (760) 744-1150 X2515

<b>SIGNATURES ON FILE</b>
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