

**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 110  
GENERAL GEOLOGY: NATIONAL PARKS & MONUMENTS

**UNIT VALUE:** 3

**MINIMUM NUMBER OF SEMESTER HOURS:** 48

**BASIC SKILLS REQUIREMENTS:**  
Appropriate language and computational skills.

**ENTRANCE REQUIREMENTS**

**PREREQUISITE:** none

**COREQUISITE:** none

**RECOMMENDED PREPARATION:** none

**SCOPE OF COURSE:**  
Geologic History and processes of formation of our natural landscape. Principles of physical and historical geology as revealed in the structure, stratigraphy and rock types of the parks and monuments.

- SPECIFIC COURSE OBJECTIVES:**  
The successful student will be able to:
1. Describe the basic concepts of physical and historical geology using the national parks and monuments as examples.
  2. Explore the national parks and monuments on their own and to analyze the processes behind the scenery.
  3. Understand the origin and significance of landscapes.
  4. Realize that humans are intimately connected with nature and that by dominating it, they destroy it.
  5. Use the scientific method in analysis of the geology of the national parks and monuments.

- CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:**
1. Basic geology.
  2. Basic geomorphology.
  3. Colorado Plateau I: Grand Canyon, Zion, Bryce.
  4. Colorado Plateau II: Capitol Reef, Canyonlands, Arches, Nat. Bridges, Rainbow Br., Escalante.

5. Volcanics I: Cascade Range: Lassen, Crater Lake, Mt. Rainier, Mt. St. Helens.
6. Volcanics II: Hawaii, Haleakala, Lava Beds, Craters of the Moon, Sunset Crater, Devil's Tower, Devil's Postpile.
7. Deserts I: Death Valley
8. Deserts II: Joshua Tree, Organ Pipe, Saguaro, Chiricahua, Big Bend, White Sands, Great Sand Dunes.
9. Glaciers & Granite Mtns. I: Sierras: Yosemite, Sequoia, Kings Canyon.
10. Glaciers & Granite Mtns. II: Rockies: Yellowstone, Rocky Mtn., Grand Teton, Glacier.
11. Glaciers & Granite Mtns. III: Alaska: McKinley, Katmai, Glacier Bay, etc.
12. Fossils: Dinosaur, Petrified Forest, John Day, Fossil Butte, Florissant, Agate.
13. Caves: Carlsbad, Mammoth, Great Basin, Oregon, Jewel, Timpanogos, Wind.
14. Pacific Border: Olympic, Redwoods, Pinnacles, Channel Islands.
15. Archeological: Mesa Verde, etc.

**REQUIRED READING:**

Harris, Ann G., Geology of the National Parks, 5<sup>th</sup> ed., Dubuque: Kendall-Hunt Pub., 1997.

**SUGGESTED READING:**

Hintz, Lehi, Geologic History of Utah, Provo: BYU Spec. Pub. #7, 1998.

**REQUIRED WRITING:**

A one-page typed essay is required of 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.

Preparation may include such activities as readings in assigned text, review of lecture material, and writing the essay.

**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

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):

Four objective tests (23% each), field trip assignment & written essay (8%) are combined in grade total.

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

Yes  No  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