COLLEGE OF THE DESERT

Course Code GEOG-001L

Course Outline of Record

1. Course Code: GEOG-001L
2. a. Long Course Title: Physical Geography Lab
   b. Short Course Title: PHYSICAL GEOGR LAB
3. a. Catalog Course Description:
   Laboratory exercises and experiments designed to explore and understand the primary areas of physical geography. Exercises and applications related to map scales and projections, stereoscopic, topographic and aerial photo interpretation, meteorological tools and models and weather prognostication, geomorphologic models and processes, and landform interpretation.
   b. Class Schedule Course Description:
   Laboratory exercises and experiments designed to explore and understand the primary areas of physical geography.
   c. Semester Cycle (*if applicable*): This course and accompanying lecture is offered every Fall semester.
   d. Name of Approved Program(s):
   - GEOGRAPHY
4. Total Units: 1.00 Total Semester Hrs: 54.00
   Lecture Units: 0 Semester Lecture Hrs: 0
   Lab Units: 1 Semester Lab Hrs: 54.00
   Class Size Maximum: 50 Allow Audit: Yes
   Repeatability No Repeats Allowed
   Justification 0
5. Prerequisite or Corequisite Courses or Advisories:
   Course with requisite(s) and/or advisory is required to complete Content Review Matrix (CCForm1-A)
   Prerequisite: GEOG 001 or
   Corequisite: GEOG 001
6. Textbooks, Required Reading or Software: *(List in APA or MLA format.)*
   a. Hess, Darrel (2010). *Physical Geography Laboratory Manual* (11th/e). Prentice Hall. ISBN: 0321678362
   College Level: Yes
   Flesch-Kincaid reading level: 12
7. Entrance Skills: *Before entering the course students must be able:*
   a. Identify and analyze the natural environment emphasizing an approach which views the earth as the home of humankind.
   - GEOG 001 - Identify and analyze the natural environment emphasizing an approach which views the earth as the home of humankind.

   b. Evaluate the nature of the ecological interrelationships existing between integrated features of the natural environment.
   - GEOG 001 - Evaluate the nature of the ecological interrelationships existing between integrated features of the natural environment.

   c. Identify the distributional patterns of the earth's natural features and to critically evaluate explanations for these special patterns.
   - GEOG 001 - Identify the distributional patterns of the earth's natural features and to critically evaluate explanations for these special patterns.

   d. Recognize and utilize relevant printed resource materials in the form of books and articles pertaining to the study of the environment.

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e. Encourage an approach to problem resolution associated with natural phenomena which emphasizes the precise and objective analysis of relevant data in formulating scientific generalizations.

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8. Course Content and Scope:

Lecture:

See lab content

Lab: *(if the "Lab Hours" is greater than zero this is required)*

1. Laboratory Orientation, Location on the Geographic Grid, Map Scales and Projections
2. Temperature and Climate Controls
3. Atmospheric Humidity and Pressure
4. Adiabatic Process and Forecasting
5. Introduction to Contour Lines, Stereoscopic Glasses and Aerial Photo Interpretation, and the Public Lands Survey System
6. Earthquakes, Faults, Epicenters, Plate Tatonics
7. Ground Water, Physical, Chemical Weathering, Karst Landforms, the Fluvial Processes
8. Glacial Geomorphology and Climate Change

9. Course Student Learning Outcomes:

1.
Analyze and interpret various types of maps, graphs, and tables depicting topographic, geologic, meteorologic, climatic and cartographic data.

2.
Examine and interpret the relationship between the atmosphere, biosphere, hydrosphere, and lithosphere.

10. Course Objectives: *Upon completion of this course, students will be able to:*

a. Perform applications and activities related to basic concepts of physical geography in the analysis of real-world variations in environmental patterns.
b. Perform applications and activities related to the size, shape, and movements of the Earth in space and their importance to environmental patterns and processes.
c. Perform applications and activities related to the atmospheric, geomorphological, and biotic processes that shape the Earth's surface environments.
d. Perform applications and activities related to the global distribution of the world's major climates, ecosystems, and physiographic (landform) features.
e. Identify and use relevant maps, books and magazine articles which pertain to the study of the natural environment.
f. Encourage an approach to problem resolution associated with natural phenomena which emphasizes the precise and objective analysis of relevant data in formulating scientific generalizations.

11. Methods of Instruction: *(Integration: Elements should validate parallel course outline elements)*
    a. Discussion
    b. Individualized Study
    c. Laboratory
    d. Observation
    e. Participation

f. Technology-based instruction

Other Methods:

a. Cooperative Learning b. Case Studies c. Interactive exercises involving identification and interpretation of climate patterns, meteorological phenomena, and geomorphology patterns d. Use of maps, aerial photographs, stereoscopic glasses, Weather Station data, and physical geography models Chemical analysis of water, soil, and rocks

12. Assignments: *(List samples of specific activities/assignments students are expected to complete both in and outside of class.)*

In Class Hours: 54.00

Outside Class Hours: 0

a. In-class Assignments

- Viewing of films and slide programs, including the taking of notes.
- Listening to sound recordings and taking notes.
- Participating in class research projects involving the collection, compilation and interpretation of data, including the composition of written or oral reports.

b. Out-of-class Assignments

1. Preparation for exams through the study of previous lab work and exercises.

13. Methods of Evaluating Student Progress: *The student will demonstrate proficiency by:*

- Written homework
  Computer assignments
- Portfolios
- Laboratory projects
  Laboratory Notebook/Reports
- Computational/problem solving evaluations
- Presentations/student demonstration observations
- Group activity participation/observation
  Lab activities/exercises
- True/false/multiple choice examinations
  Quizzes and tests
- Mid-term and final evaluations
- Student participation/contribution
- Student preparation

14. Methods of Evaluating: Additional Assesment Information:

15. Need/Purpose/Rationale -- *All courses must meet one or more CCC missions.*

IGETC Area 5: Physical and Biological Sciences (mark all that apply)

A: Physical Science with Lab
A: Physical Science without Lab
A: Physical Science, Lab only

CSU GE Area B: Physical and its Life Forms(mark all that apply)

B3 - Laboratory Sciences

CSU GE Area D: Social, Political, and Economic Institutions and Behavior, Historical

D5 - Geography

PO-GE C1-Natural Sciences

Explain concepts and theories related to physical, chemical, and biological natural phenomena.
Draw a connection between natural sciences and their own lives.

PO-BS Critical Thinking

Locate questions and problems as a result of conversation, reading, and lectures

Assess relevant information and come to thought-out conclusions and solutions.
Value open-mindedness.
Communicate meaningfully with others.

IO - Personal and Professional Development
Self-evaluate knowledge, skills, and abilities.
Display habits of intellectual exploration, personal responsibility, and physical well being.

IO - Scientific Inquiry
Recognize the utility of the scientific method and its application to real life situations and natural phenomena.

IO - Critical Thinking and Communication
Apply standard conventions in grammar, mechanics, usage and punctuation.

PO-SSS Personal Development and Responsibility
Display habits of intellectual exploration, personal responsibility, and physical well being.

PO-SSS Self-Awareness, Self-Understanding, and Self-Advocacy
self knowledge.
Teach the people around them.

16. Comparable Transfer Course

University System	Campus	Course Number	Course Title	Catalog Year
CSU	CSU San Bernardino	GEOG 103	Physical Geography	2010-11
UC	UCLA	GEOG 1	Earth's Physical Environment	2010-11

17. Special Materials and/or Equipment Required of Students:

18. Materials Fees: ☐ Required Material?

Material or Item	Cost Per Unit	Total Cost

19. Provide Reasons for the Substantial Modifications or New Course:

C-ID alignment

20. a. Cross-Listed Course *(Enter Course Code)*: *N/A*
    b. Replacement Course *(Enter original Course Code)*: *N/A*

21. Grading Method *(choose one)*: Letter Grade Only

22. MIS Course Data Elements
    a. Course Control Number [CB00]: CCC000340709
    b. T.O.P. Code [CB03]: 220600.00 - Geography
    c. Credit Status [CB04]: D - Credit - Degree Applicable
    d. Course Transfer Status [CB05]: A = Transfer to UC, CSU
    e. Basic Skills Status [CB08]: 2N = Not basic skills course
    f. Vocational Status [CB09]: Not Occupational
    g. Course Classification [CB11]: Y - Credit Course
    h. Special Class Status [CB13]: N - Not Special
    i. Course CAN Code [CB14]: *N/A*
    j. Course Prior to College Level [CB21]: Y = Not Applicable
    k. Course Noncredit Category [CB22]: Y - Not Applicable
    l. Funding Agency Category [CB23]: Y = Not Applicable
    m. Program Status [CB24]: 1 = Program Applicable

Name of Approved Program *(if program-applicable)*: *N/A*
Attach listings of Degree and/or Certificate Programs showing this course as a required or a restricted elective.)

23. Enrollment - Estimate Enrollment
    First Year: 0
    Third Year: 0

24. Resources - Faculty - Discipline and Other Qualifications:
    a. Sufficient Faculty Resources: Yes
    b. If No, list number of FTE needed to offer this course: *N/A*
25. Additional Equipment and/or Supplies Needed and Source of Funding.
    N/A
26. Additional Construction or Modification of Existing Classroom Space Needed. *(Explain:)*
    N/A
27. FOR NEW OR SUBSTANTIALLY MODIFIED COURSES
    Library and/or Learning Resources Present in the Collection are Sufficient to Meet the Need of the Students Enrolled in the Course: Yes
28. Originator Edmund Ogbuchiekwe Origination Date 10/01/14