GEOG 001L: PHYSICAL GEOGRAPHY LAB

Originator
ehardy

Justification / Rationale
adding online modality

Effective Term
Spring 2023

Credit Status
Credit - Degree Applicable

Subject
GEOG - Geography

Course Number
001L

Full Course Title
Physical Geography Lab

Short Title
PHYSICAL GEOGR LAB

Discipline

Disciplines List
Geography

Modality
Face-to-Face
100% Online
Hybrid

Catalog 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.

Schedule Description
Laboratory exercises and experiments designed to explore and understand the primary areas of physical geography. Prerequisite: GEOG 001 or concurrent enrollment IGETC: 5C

Lecture Units
0

Lab Units
1

Lab Semester Hours
54

In-class Hours
54

Out-of-class Hours
0

Total Course Units
1

Total Semester Hours
54

Prerequisite Course(s)
GEOG 001 or concurrent enrollment

Required Text and Other Instructional Materials

Resource Type
Book

Author
Hess, Darrel

Title
Physical Geography Laboratory Manual

Edition
11th

Publisher
Prentice Hall

Year
2010

College Level
Yes

Flesch-Kincaid Level
12

ISBN #
0321678362

Class Size Maximum
50

Entrance Skills
1. Develop, organize and express ideas in paragraph and essay form.
2. Demonstrate the ability to participate in class discussions and assigned projects.
3. Read texts and respond in writing at the literate level

Requisite Course Objectives
ENG 061-Demonstrate the ability to think critically and express ideas using various patterns of development.
ENG 061-Demonstrate the ability to read and respond in writing beyond the literal interpretation of the text.
ENG 061-Demonstrate the ability to think critically and express ideas using various patterns of development.

Course Content
See lab content

Lab Content
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

Course Objectives

	Objectives
Objective 1	Perform applications and activities related to basic concepts of physical geography in the analysis of real-world variations in environmental patterns.
Objective 2	Perform applications and activities related to the size, shape, and movements of the Earth in space and their importance to environmental patterns and processes.
Objective 3	Perform applications and activities related to the atmospheric, geomorphological, and biotic processes that shape the Earth's surface environments.
Objective 4	Perform applications and activities related to the global distribution of the world's major climates, ecosystems, and physiographic (landform) features.
Objective 5	Identify and use relevant maps, books and magazine articles which pertain to the study of the natural environment.
Objective 6	Encourage an approach to problem resolution associated with natural phenomena which emphasizes the precise and objective analysis of relevant data in formulating scientific generalizations.

Student Learning Outcomes

	Upon satisfactory completion of this course, students will be able to:
Outcome 1	Analyze and interpret various types of maps, graphs, and tables depicting topographic, geologic, meteorologic, climatic and cartographic data.
Outcome 2	Examine and interpret the relationship between the atmosphere, biosphere, hydrosphere, and lithosphere.

Methods of Instruction

Method	Please provide a description or examples of how each instructional method will be used in this course.
Discussion	During lectures, students will be expected to discuss the material and apply info to lab exercises. answer questions.
Technology-based instruction	Power-point presentations, internet access assignments.
Participation	Students will attend class regularly and complete lab assignments and other assigned work.
Observation	Students will be observed and/or assisted as he/she progresses through the lab assignments.
Laboratory	Lab exercises
Individualized Study	Are students able to work alone to complete assignments.

Methods of Evaluation

Method	Please provide a description or examples of how each evaluation method will be used in this course.	Type of Assignment
Written homework	Students will read assigned chapters and complete written assignments.	Out of Class Only
Self-paced testing	Students complete quizzes as instructed.	In Class Only
Student participation/contribution	Students will be evaluated by their participation in the lecture, lab discussion, and any outside of class meetings	In and Out of Class
Mid-term and final evaluations	Students will be tested to determine their understanding of the material. Tests include multiple choice, true/false questions, define terms, and longer-answer essay questions.	In Class Only
Tests/Quizzes/Examinations	Students will be tested to determine their understanding of the material. Tests include multiple choice, true/false questions, define terms, and longer-answer essay questions.	In Class Only

Group activity participation/observation	Lab activities/exercises conducted in groups, submitted and evaluated.	In Class Only
Presentations/student demonstration observations	Students may present information based on their understanding of geography concepts and/or lab assignment	In Class Only
Laboratory projects	Laboratory Notebook/Reports	Out of Class Only

Assignments

Other 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.

Other Out-of-class Assignments

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

Grade Methods

Letter Grade Only

Distance Education Checklist

Include the percentage of online and on-campus instruction you anticipate.

Online %

50

On-campus %

50

Lab Courses

How will the lab component of your course be differentiated from the lecture component of the course?

Laboratory exercises and experiments designed to explore and understand the primary areas of physical geography.

From the COR list, what activities are specified as lab, and how will those be monitored by the instructor?

All of the following activities will be explained to students and monitored via face to face, synchronous or asynchronous modalites and CANVAS LMS: 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 Tectonics; 7. Ground Water, Physical, Chemical Weathering, Karst Landforms, the Fluvial Processes; 8. Glacial Geomorphology and Climate Change.

How will you assess the online delivery of lab activities?

Students will be made aware of assignments and due dates Through CANVAS LMS. This course is easy to offer as either a hybrid or fully online course, as the material and supplements can be understood by students so long as regular effective contact is established by the instructor.

Instructional Materials and Resources

If you use any other technologies in addition to the college LMS, what other technologies will you use and how are you ensuring student data security?

None

If used, explain how specific materials and resources outside the LMS will be used to enhance student learning.

None

Effective Student/Faculty Contact

Which of the following methods of regular, timely, and effective student/faculty contact will be used in this course?

Within Course Management System:

Chat room/instant messaging
Discussion forums with substantive instructor participation
Online quizzes and examinations
Private messages
Regular virtual office hours
Timely feedback and return of student work as specified in the syllabus
Video or audio feedback
Weekly announcements

External to Course Management System:

Direct e-mail
Posted audio/video (including YouTube, 3cmediasolutions, etc.)

For hybrid courses:

Field trips
Library workshops
Orientation, study, and/or review sessions

Briefly discuss how the selected strategies above will be used to maintain Regular Effective Contact in the course.

Announcements, direct messaging, email, etc. are all ways to make sure the instructor is in regular effective contact with their students.

If interacting with students outside the LMS, explain how additional interactions with students outside the LMS will enhance student learning.

Field trips, workshops as part of a hybrid course will help students achieve the SLO's by exposing them to content and material they are reading about in class.

Other Information

Provide any other relevant information that will help the Curriculum Committee assess the viability of offering this course in an online or hybrid modality.

This course is easy to offer as either a hybrid or fully online course, as the material and supplements can be understood by students so long as regular effective contact is established by the instructor.

Comparable Transfer Course Information

University System

CSU

Campus

CSU San Bernardino

Course Number

GEOG 103

Course Title

Physical Geography

Catalog Year

2010-11

University System

UC

Campus

UC Los Angeles

Course Number

GEOG 1

Course Title

Earth's Physical Environment

Catalog Year
2010-11

COD GE
C1 - Natural Sciences

CSU GE
B3 - Laboratory Activity

IGETC GE
5C - Science Laboratory

MIS Course Data

CIP Code
45.0701 - Geography.

TOP Code
220600 - Geography

SAM Code
E - Non-Occupational

Basic Skills Status
Not Basic Skills

Prior College Level
Not applicable

Cooperative Work Experience
Not a Coop Course

Course Classification Status
Credit Course

Approved Special Class
Not special class

Noncredit Category
Not Applicable, Credit Course

Program Status
Program Applicable

Transfer Status
Transferable to both UC and CSU

C-ID
GEOG 111

Allow Audit
Yes

Repeatability
No

Materials Fee
No

Additional Fees?
No

Approvals

Curriculum Committee Approval Date
12/06/2022

Academic Senate Approval Date
12/08/2022

Board of Trustees Approval Date
01/20/2023COCI

Chancellor's Office Approval Date
09/27/2010

Course Control Number
CCC000340709

Programs referencing this course
Geography AA-T Degree (http://catalog.collegeofthedesert.eduundefined/?key=15)
Environmental Science AS-T (http://catalog.collegeofthedesert.eduundefined/?key=216)
Liberal Arts: Math and Science AA Degree (http://catalog.collegeofthedesert.eduundefined/?key=29)
Geographic Information Systems Certificate of Achievement (http://catalog.collegeofthedesert.eduundefined/?key=315)