

Course Outline

COURSE: GEOG 1 **DIVISION:** 10 **ALSO LISTED AS:**

TERM EFFECTIVE: Fall 2016 **CURRICULUM APPROVAL DATE:** 11/23/2015

SHORT TITLE: PHYSICAL GEOG L/L

LONG TITLE: Physical Geography

<u>Units</u>	<u>Number of Weeks</u>	<u>Type</u>	<u>Contact Hours/Week</u>	<u>Total Contact Hours</u>
3	18	Lecture:	2	36
		Lab:	3	54
		Other:	0	0
		Total:	5	90

COURSE DESCRIPTION:

An introductory study of the basic physical elements of geography including climate, land forms, soils, water, and natural vegetation, The laboratory will include the tools and methods of geographers. (C-ID: GEOG 115)
ADVISORY: Eligible for English 250 and English 260.

PREREQUISITES:

COREQUISITES:

CREDIT STATUS: D - Credit - Degree Applicable

GRADING MODES

L - Standard Letter Grade

REPEATABILITY: N - Course may not be repeated

SCHEDULE TYPES:

02 - Lecture and/or discussion

03 - Lecture/Laboratory

04 - Laboratory/Studio/Activity

STUDENT LEARNING OUTCOMES:

1. Demonstrate a practical knowledge of basic skills with maps & the geographic grid.

Measure: Exam, Lab

ILO: 1,2

GE-LO: B1,B4,B8

2. Identify, describe, compare & contrast global heat energy flow & temperature within the atmosphere.

Measure: Exam, Lab

ILO: 2,1

GE-LO: B1,B3,B6,B8

3. Identify, describe, compare & contrast atmospheric moisture & circulation.

Measure: Exam, Lab

ILO: 1,2

GE-LO: B1,B3,B6,B8

4. Identify & describe the basic elements & controls for weather phenomena.

Measure: Exam, Lab

ILO: 1,2

GE-LO: B1,B6B8

5. Identify, compare & contrast global climate & vegetation zones.

Measure: Exam, Lab

ILO: 2,1

GE-LO: B1,B6,B8

6. Identify & describe the hydrologic cycle.

Measure: Exam, Lab

ILO: 2,1

GE-LO: B1,B6,B8

7. Identify, describe, compare & contrast plate tectonic, volcanic &, earthquake processes.

Measure: Exam, Lab

ILO: 1,2

GE-LO: B1,B6,B8

8. Identify, describe, compare & contrast river, coastal, desert & glacial processes & landforms.

Measure: Exam, Lab

ILO: 1,2

GE-LO: B1,B6,B8

CONTENT, STUDENT PERFORMANCE OBJECTIVES, OUT-OF-CLASS ASSIGNMENTS

Curriculum Approval Date: 11/23/2015

2/3 Hours

CONTENT: Global Systems and the Geographic Grid

STUDENT PERFORMANCE OBJECTIVES (SPO): Students will identify describe, contrast and compare the interrelationships within the 4 Earth Systems of Atmosphere, Hydrosphere, Lithosphere and Biosphere.

Students will identify and describe how the planetary motions relate to Time Zones and seasonal change.

Lab 1/Geographic Grid, Time Zones

OUT-OF-CLASS ASSIGNMENTS: Reading from text

2/3 Hours

CONTENT: Global Heat Budget

SPO: Students will identify, compare and contrast how solar insolation circulates within the atmosphere.

Lab 1 cont.

OUT-OF-CLASS ASSIGNMENTS: Reading from text

2/3 Hours

CONTENT: Energy Flow and Temperature

SPO: Students will identify, describe and compare heat energy flow and air temperature controls within the atmosphere

Lab 2/Energy Flow and Air Temperature

OUT-OF-CLASS ASSIGNMENTS: Reading from text

2/3 Hours

CONTENT: Atmospheric Circulation

SPO: Students will identify and describe how heat energy flow controls Global Air Pressure and Wind Belts
Students will compare and contrast how these forces affect atmospheric circulation.

Lab 2 cont.

OUT-OF-CLASS ASSIGNMENTS: Reading from text

2/3 Hours

CONTENT: Atmospheric Moisture

SPO: Students will identify, describe and demonstrate how air pressure, temperature and humidity control atmospheric moisture and weather systems.

Lab 3/Atmospheric Moisture

OUT-OF-CLASS ASSIGNMENTS: Reading from text

2/3 Hours

CONTENT: Weather Systems

SPO: Students will identify, describe and contrast the development of hurricanes, tornadoes, thunderstorms and weather fronts.

OUT-OF-CLASS ASSIGNMENTS: Reading from text

2/3 Hours

CONTENT: Climate Classification and Vegetation Zones

SPO: Students will identify, compare and contrast the different global climates and how they affect the distribution of soils and vegetation zones.

OUT-OF-CLASS ASSIGNMENTS: Reading from text

2/3 Hours

CONTENT: Plate Tectonics

SPO: Students will identify, describe, compare and contrast the basic elements of Plate Tectonic Theory.
Students will demonstrate an understanding of how the theory is used to understand the global distribution of earthquakes and volcanism

Lab 4/Plate Tectonics

OUT-OF-CLASS ASSIGNMENTS: Reading from text

2/3 Hours

CONTENT: Plate Tectonics

SPO: Students will identify and describe how plate tectonics controls landform development. Students will compare and contrast the different types of plate boundaries.

Lab 4 cont.

OUT-OF-CLASS ASSIGNMENTS: Reading from text

2/3 Hours

CONTENT:

SPO: Students will identify, describe, compare and contrast the basic elements of faulting and earthquake activity. Students will demonstrate an understanding of the general pattern of global seismicity as it relates to plate tectonics.

Lab 5/Earthquake Exercise

OUT-OF-CLASS ASSIGNMENTS: Reading from text

2/3 Hours

CONTENT: Faulting Landforms and Volcanism

SPO: Students will identify and describe landforms developed from faulting. Students will identify, describe, contrast and compare volcanic processes, types of volcanoes and eruptions.

OUT-OF-CLASS ASSIGNMENTS: Reading from text

2/3 Hours

CONTENT: Hydrologic Cycle and Groundwater

SPO: Students will identify and describe the Hydrologic Cycle as it relates to surface and groundwater movement.

OUT-OF-CLASS ASSIGNMENTS: Reading from text

2/3 Hours

CONTENT: River Systems and Processes

SPO: Students will identify, contrast and compare the various elements of river systems, drainage basins and groundwater movement. Students will describe the processes of erosion and sediment transport by running water and the landforms created by it.

OUT-OF-CLASS ASSIGNMENTS: Reading from text

2/3 Hours

CONTENT: Desert Landforms and Processes

SPO: Students will identify, contrast and compare the different types of deserts. Students will describe the development of desert landforms by the forces of wind and water erosion and deposition.

Lab 6/Desert Landforms

OUT-OF-CLASS ASSIGNMENTS: Reading from text

2/3 Hours

CONTENT: Coastlines and Coastal Processes

SPO: Students will identify and describe the basic types of coastlines and the processes of erosion and sediment transport by waves. Students will identify, compare and contrast erosional and depositional coastal landforms.

Lab 7/Coastal Processes and Landforms

OUT-OF-CLASS ASSIGNMENTS: Reading from text

2/3 Hours

CONTENT: Glacial Landforms and Processes

SPO: Students will identify and describe the different types of glaciers. Students will compare and contrast the glacial processes and how they produce erosional and depositional glacial landforms. Students will identify and describe the triggers for global ice ages.

Lab 8/Glacial Landforms

OUT-OF-CLASS ASSIGNMENTS: Reading from text

2 Hours

Final

METHODS OF INSTRUCTION:

Lecture/Discussion. Laboratory Exercises.

METHODS OF EVALUATION:

CATEGORY 1 - The types of writing assignments required:

Percent range of total grade: 40 % to 60 %

Written Homework

CATEGORY 2 -The problem-solving assignments required:

Percent range of total grade: 40 % to 60 %

Homework Problems

CATEGORY 3 -The types of skill demonstrations required:

Percent range of total grade: 0 %

CATEGORY 4 - The types of objective examinations used in the course:

REPRESENTATIVE TEXTBOOKS:

Required:

Arbogast, Discovering Physical Geography, Wiley & Sons, 2013
or other appropriate college level text.

ISBN: 9780471438601

Reading level of text: College grade Verified by: Pending

ARTICULATION and CERTIFICATE INFORMATION

Associate Degree:

GAV B1, effective 201070

GAV B3, effective 201070

CSU GE:

CSU B1, effective 201070

CSU B3, effective 201070

IGETC:

IGETC 5A, effective 201070

IGETC 5C, effective 201070

CSU TRANSFER:

Transferable CSU, effective 201070

UC TRANSFER:

Transferable UC, effective 201070

SUPPLEMENTAL DATA:

Basic Skills: N

Classification: Y

Noncredit Category: Y

Cooperative Education:

Program Status: 1 Program Applicable

Special Class Status: N

CAN: GEOG6

CAN Sequence: XXXXXXXX

CSU Crosswalk Course Department: GEOG

CSU Crosswalk Course Number: 1

Prior to College Level: Y

Non Credit Enhanced Funding: N

Funding Agency Code: Y

In-Service: N

Occupational Course: E

Maximum Hours:

Minimum Hours:

Course Control Number: CCC000272684

Sports/Physical Education Course: N

Taxonomy of Program: 220600