

Course Title: Geography 015 - Physical Geography Laboratory **Units:** 2.00 - **Section:** 4938

Class Days & Times: 7 Thursdays – 5:45 – 6:45 p.m. & Online using Etudes - **Class Location:** MSA302

Course Dates: Thursday Oct. 30th, 2014 – Dec. 18th, 2014 - Course ends 12/21/14

Instructor: Susan White **Email:** whitesm@wlac.edu **Office Hour:** Th - 4:45-5:45 p.m. – MSA302

PREREQUISITE: Geography 1 or equivalent, or concurrent enrollment in Geography 1.

Course Description: Use of maps, weather measurement, and the study of soils, vegetation and landforms are emphasized. Geography 1 & 15 taken together fulfill Physical Science laboratory credit. (UC:CSU)

Required: Etudes Course website: <http://myetudes.org>

Etudes Login: <http://www.wlac.edu/online/login.asp>

REQUIRED TEXT: Lab Manual for Physical Geography, 10th Ed., ISBN: 9781111572266 **Authors:** James F. Peterson, Dorothy Sack, & Robert E. Gabler - **Online Bookstore:** <http://onlinestore.wlac.edu/>

Assignments & Exams:

15 Lab Exercises	LAB EXERCISES: 10-15 Points Each	160 Points
Lab Exams #1-3	EXAMS: 2 @ 10 Points Each 1 Final @ 20 Points	40 Points
	Total =	200 Points

Grading Scale:

180 – 200	= A
160 – 179	= B
140 – 159	= C
120 – 139	= D
< 120	= F

Course Objectives:

Demonstrate how the basic interactions between the sun and the earth's subsystems of the lithosphere, biosphere, hydrosphere and atmosphere affect such things as climate, seasonal changes, and hydrology.

Student Learning Outcomes: As a result of a course of study in physical geography laboratory topics, students will be able to:

EARTH-SUN RELATIONSHIPS:

- Describe the shape and dimensions of Earth's sphere. Use a globe to demonstrate Earth-Sun relationships and Earth's rotation on its axis for the 24-hour day.

LOCATION, TIME & GEOGRAPHIC TECHNOLOGY:

- Determine location on Earth using the latitude & longitude coordinate system, interpret the U.S. Public Land Survey System, calculate time utilizing time zones, and compare map projections.

AIR TEMPERATURE, MOISTURE, AND WEATHER

- Interpret maps and charts of weather data including wind speed & direction, air pressure, and weather systems.
- Calculate relative humidity using measures of air temp., absolute humidity & water vapor capacity.

CLIMATE, BIOMES & SOILS:

- Construct climographs for geographic locations and identify climate types.
- Identify Biome types from a series of representative online photographs.
- Determine soil type using a soil porosity chart.

LITHOSPHERE & LANDFORMS:

- Construct a topographic cross-section by plotting elevation data from a USGS quadrangle map.
- Identify examples of fluvial, karst, arid, Aeolian, coast, and glacial landform types and specify the hydrologic and other exogenic & endogenic processes that shaped them.

Institutional Learning Objectives:

- **Critical Thinking:** Analyze problems by differentiating fact from opinions, using evidence, and using sound reasoning to specify multiple solutions and their consequences. *Students will distinguish between an alternative hypothesis and a null hypothesis for a particular environmental problem.*

West Los Angeles College Attendance Policy

- **Students are expected to participate in all classes for which they are registered.**
- Students who are unable to participate in class regularly, regardless of the reason or circumstance, should withdraw from the class.
- Instructors may exclude a student from a class whenever a student is not participating on a regular basis.

Attendance & Late Policies:

- **Lab assignments are due by the next class meeting from the date they are assigned**, see Instructor to make arrangements for a later submittal.
- **Avoid missed ONLINE Quiz dates** by staying in contact susmwhite@hotmail.com. A make-up Quiz will be substantially different from the original & provided on a date set by the Instructor.
- Attendance is required if you expect to be successful in this 8-week Lab course.
- You are responsible for all course content if you are absent from class including but not limited to all laboratory assignments, homework, quizzes, class notes, etc.

Academic Integrity Statement: The following results in a failing grade for a lab activity or exam:

- Taking or sharing answers on a lab activity, homework assignment or exam.

- Copying & submitting another person's lab work in or out of class or during an exam.

In-Class Lab Assignments - Approximately 1.5 hours for EACH Lab Assignment Materials: Pencils, Pens, Erasers, Notebook Paper, Calculator, Ruler & class access to Etudes. **Suggested:** Protractor, Graph Paper, Colored Pencils

Lab Scoring Guide:		
POINTS	GRADE	CRITERIA:
13 - 15 Points	A	<p>1. Legible answers including complete numerical values including decimal points & required units of measure per Lab question.</p> <p>Examples: 5.5 inches (not 5.5), 100 meters (not 100), 5,286 feet (not 5,286)</p> <p>14.7 g/m³ (not 14.7) , 1,000 kilometers (not 1,000), 75° F, not (75)</p> <p>2. Show math work including calculation of formulas as part of assignment.</p> <p>3. Construction and/or interpretation of graphs, charts, and maps, as required to answer the lab questions for full understanding of the concepts and objectives.</p>
8 - 12 Points	B	1. Legible answers including complete numerical values but missing decimal places & missing units of measure , that do not fully address the lab concepts and objectives. Missing portions of the lab assignment.
4 – 7 Points	D	Illegible work for either required math or written answers. Incomplete construction of or misinterpretation of charts, graphs, or maps.
0 - 3 Points	F	Majority of Lab answers incomplete or no submittal. COPYING ANOTHER'S LAB WORK & SUBMITTING AS YOUR OWN = 0 Points & F for Lab assignment.

Class Schedule – Physical Geography Laboratory

CLASS DATES:	LAB TOPICS:	ASSIGNMENTS & EXAMS:
Week 1 Th-10/30/14	<p>Physical Geography LAB: Syllabus & Class Req.</p> <p>TOPICS:</p> <p>Ch. 1- Scientific Method & Earth systems</p> <p>Ch. 2- Earth measurement: Location Coordinates; Latitude & Longitude, Time</p> <p>Ch. 3-Earth-Sun Relationship</p>	<p><i>Intro. To Geography – Physical, Regional, & Human Geog.</i></p> <p>Lab Exercise #1 – 5 Points Lab Manual – Complete Lesson 1-pages 1-10 <i>Hypothesis testing – Alternative or Null</i> <i>Earth Systems – open, closed, & balanced</i></p> <p>Lab Exercise #2 – 10 Points Lesson 3, pages 29-38 & 39-45, <i>Public Land Survey System-township & range, Time Zones</i></p> <p>Lab Exercise #3 – 10 Points Lesson 6, pages 73-90 – <i>Calculate Noon Solar Angle</i></p>

<p>Week 2 Th-11/6/14 –</p>	<p>TOPICS: - Ch. 2- Geographic Distance, Map Scale, Map Projections;</p>	<p>Lab Exercise #4 – 10 Points Lesson 4, pages 47-58 <i>Map Scale types : Verbal, Graphic & Representative Fractions</i></p>
<p>Week 3 Th-11/13/14</p>	<p>Elevation: Isoline Maps, & Contour Maps</p> <p>Ch. 3, 4, 5 The Atmosphere, Temperature Controls; Atmospheric Circulation- Pressure & Winds; Humidity, Condensation & Precipitation</p>	<p>Lab Exercise #5 – 10 Points Lesson 5, pages 59-71 <i>Isolines – lines of equal spatial value ; contour line - elevation</i></p> <p>Lab Exercise #6 – 10 Points Lesson 7, pages 83-92</p> <p>Lab Exercise #7 – 15 Points Lesson 8, pages 91-101 – <i>Air Temp. Lapse rates</i> Lesson 9, pages 103-114 <i>Global air pressure & wind systems. High & Low Pressure or Hadley Cells</i></p>
<p>Week 4 T-11/20/14 –</p> <p>Week 5 <i>No Class:</i> 11/27/14</p>	<p>TOPICS: Ch. 6, 7 Air Masses, Barometric Pressure; Weather Systems; Fronts & Weather Maps; Ch. 11-Biomes</p> <p>*NO CLASS THURSDAY November 27th, 2014 <u>Thanksgiving</u></p>	<p>Tues. Lab Exercise #8 – 10 Points Lesson 10-11, pages 115-124 <i>Interpret weather station data</i></p> <p>Wed. Lab Exercise #9 – 10 Points <i>Interpret weather maps</i> Lesson 11, pages 125-132 -</p> <p>*Homework – Lab #10: – [5 Pts.]-Due Th. 12/14/13 Lesson 15, pages 165-170 – <i>Online Biomes</i></p> <hr/> <p>ONLINE Lab Quiz 1 – 10 Points – Due by Thursday 12/4/14 <i>Map interpretation, short answers, & multiple choice.</i></p>
<p>Week 6 Th-12/4/14</p>	<p>TOPICS: Ch. 8,9,10 Climate & Climographs; Biogeography Ch. 12-Soils & Properties, Climates, Biomes & Soils</p> <p>Ch. 13, 14 Earth Materials & Plate Tectonics, Properties of Rocks, Volcanism & Geologic structures, & mapping.</p>	<p>*Lab Exercise #10– [5 + 5]=10 Points Lesson 12, pages 133-137</p> <p>Lab Exercise #11– 10 Points Lesson 16, Pages 165-178</p> <p>Lab #12-13 – 20-30 Points (Choose 2 & Quiz 2) or (All 3 labs) Lesson 17, Pages 179-201 [10 Pts.] Lesson 18, pages 205-208 & [10 Pts.] Lesson 19, pages -209-227 [10 Pts.]</p> <p>OR Online Lab Quiz 2 – 10 Points Due <i>Week 7 - 12/11/14</i></p>

Week 7 Th-12/11/14	TOPICS: Ch. 15 -Landforms- Gradation, Weathering & Mass Wasting; Ch. 16 -Karst, groundwater	Lab Exercise #14– 15 Points Lesson 20, pages 229-236, Lesson 21, pages 237-240 Lesson 22, pages 241-254
Week 7 Th-12/11/14 <i>Continued.</i>	Ch. 17 -Fluvial Hydrology – Stream Channels & Erosion Ch. 18, 19, 20 - Arid, Glacial Landforms, & Oceanic Properties	Lab Exercise #15 – 15 Points Lesson 23, pages 255-261 Lesson 24, pages 263-276 Lesson 25, pages 277-283 <i>Final Lab Exam Review</i>
Week 8 Th-12/18/14		Lab Final: 20 Points - Thursday, 12/18/14 <i>Use calculator, Scantron required.</i> <i>Complete all Lab assignments In-Class & Online.</i>

Private Messages and Electronic Mail

The Etudes Private Messaging system may also be used for communication for this class. However, every WLAC student has an e-mail address. **Check your Student.LACCD@Edu account daily/weekly. To access your account visit www.wlac.edu, and click on the Student Email button. To log in use your student ID # and your birthday and month.** Your Student.LACCD@Edu email can be forwarded to any other personal email account.

Disabled Student Services

If you know or think that you have any learning or physical disabilities, please contact Dr. Duke in the Disabled Student Programs and Services (DSPS) Office in the Student Services Building room 320 or at (310) 287-4423. The DSPS will then contact your instructors to notify them of needed accommodations, such as additional testing time, or a note taker. If you require an accommodation for this class, please speak with me.

Dropping the course

According to college policy, you will be excluded for non-participation or for not following the Standards of Student Conduct (printed in the Schedule of Classes). If you drop the course, be sure to do so using the Student Information System at <http://www.laccd.edu> and keep the confirmation code. Pay attention to drop dates in the Schedule of Classes. The last day to drop for this class with no fee owed is **Friday October 31st, 2014**. The last day to drop without a “W” is **Friday, October 31st, 2014**. The last day to drop with a “W” is **Friday, December 5th, 2014**.

For more information on all policies go to: http://www.wlac.edu/academics/pdf/WLAC_12-14Catalog_Policies.pdf

Academic Integrity

Students are responsible for the honest completion and representation of their work, for the appropriate citation of sources, and for respect of others’ academic endeavors. When there is evidence of cheating or plagiarism in classroom work, the instructor may assign a failing grade, “F,” or zero points to the examination or lab assignment in which the alleged cheating or plagiarism occurred. Before a substandard grade is issued the instructor will provide the student with supporting documentation of the cheating charge.

Forms of Behavior which Violate Academic Integrity:

Cheating. Using any materials or devices or strategies which provide undue advantage on any exam, assignment, activity or other method of assessment for a course. This includes, but is not limited to, copying content from the Web, textbooks or other sources, buying content, reusing materials produced in other courses, or any other system of inappropriate "help". Exams are to be measures of what YOU, as an individual, have learned.

Collaboration only when approved. Working together on labs, exams, or other forms of assessment which are to be completed individually is considered cheating

Standards of Student Conduct

The West LA College faculty, staff and administrators are dedicated to maintaining an optimal learning environment and will not tolerate any disruptive behavior in or outside of the classroom or any academic dishonesty. These standards apply to all students.

Disruptive, disrespectful, or obstructive behavior will be dealt with in accordance with the LACCD Standard of Student conduct. Disciplinary action can be taken if student behavior interferes with instruction. Please refer to the Schedule of Classes.

- Warning - A written notice, given to the student by the instructor.
- Removal by the Instructor - An instructor may remove a student temporarily from the course.

Instructional Support and Monitoring

- For assistance with research projects, visit the Library on the second floor of the HLRC or access Library resources online at <http://www.wlac.edu/library/index.html>
- Monitor your academic progress online at <http://www.wlac.edu/online/counselingonline.asp> by clicking on the DegreeWorks icon, or contact an Online Counselor at onlinecounseling@wla.edu

Student Acknowledgment

(Please return this sheet to the instructor)

"I _____, have completely read this syllabus and understand and agree to the course requirements."

Please indicate below, any special needs or circumstances that may have some impact on your work in this class, and for which you may require special accommodations, including but not limited to physical or mental disabilities, inability to arrive in class on time or need to leave class early, observance of religious holidays, etc.

Special needs or circumstances:
