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**Course Title:** Geography 015 - Physical Geography Laboratory
**Units:** 2.00**Class Days & Times:** M, T, W, Th – 10:45-11:35 a.m.-11:40-1:15 p.m.**Section:** 1170**Course Dates:** Mon. Jan. 6, 2014 – Thurs. Feb. 6, 2014, Course ends 2/9/14

MSA302

**Instructor:** Susan White**Email:** [whitesm@wla.edu](mailto:whitesm@wla.edu)**Office Hour:** M/W - 1:15-1:45 p.m.**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)

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**Etudes Course companion website:** <http://myetudes.org>**Etudes Login:** <http://www.wlac.edu/online/login.asp>**REQUIRED TEXT:** Lab Manual for Physical Geography, 10<sup>th</sup> Ed., ISBN: 9781111572266**Authors:** James F. Peterson, Dorothy Sack, & Robert E. Gabler**Online Bookstore:** <http://onlinestore.wlac.edu/>


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**Assignments & Exams:**

15 Lab Exercises	<b>LAB EXERCISES:</b> 5-10 Points Each	140 Points
Lab Exams #1-3	<b>EXAMS:</b> 2 @ 10 Points Each 1 Final Quiz @ 20 Points	60 Points
	<b>Total =</b>	<b>200 Points</b>

**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 & INSOLATION:**

- Describe the shape and dimensions of Earth's sphere. Use a globe to demonstrate Earth-Sun relationships, Earth's rotation on its axis for the 24-hour day. Interpret solar angle for different dates and relate seasonal changes to Earth's revolution around the Sun, sun angle, and latitude.

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**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, describe the system of Global Positioning System (GPS) satellites and computer-based latitude and longitude coordinate including Geographic Information Systems (GIS), and compare map projections.

**AIR TEMPERATURE & ATMOSPHERIC MOISTURE:**

- Interpret maps and charts of weather data including wind speed & direction, air pressure, and weather systems. Distinguish between the Fahrenheit and Celsius temperature scales and convert between both.
- Define and describe atmospheric air temperature lapse rates, stable and unstable air masses. Analyze air temperature and humidity data to determine air mass stability. Define and describe air masses, source regions, and fronts.
- Determine and analyze the air masses of North America using weather maps.

**CLIMATE CONTROLS & CLASSIFICATION:**

- Describe & utilize the Koppen climate classification system classify climate types.
- Relate climate types to geographic location, topographic controls, and wind and pressure patterns.
- Construct climographs for geographic locations and identify the major climate types.

**BIOMES & SOILS:**

- Identify Biome types from a series of representative online photographs.
- Identify soil types using a soil chart and representative soil profiles.
- Identify spatial distribution of major Soil classification on world maps.

**TOPOGRAPHY, THE ROCK CYCLE & LANDFORM PROCESSES:**

- Construct a topographic cross-section using a series of elevation data from a USGS quadrangle map.
- Distinguish between minerals and rocks based on composition and chemical structure.
- Identify examples of arid, Aeolian, coastal, fluvial, and glacial landform types and specify the hydrologic and other exogenic & endogenic processes that shaped them.

**TECTONIC FORCES & OCEAN FLOOR PROPERTIES:**

- Diagram the plate movement of a transform fault. Relate ocean floor spreading to convergent/divergent continental seafloor boundaries.
- Understand bathymetric contours and ocean water properties and circulation patterns.

**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 use the scientific method to develop a hypothesis about the potential for climate change for a particular geographic region.

### 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 in class the day they are assigned**, see Instructor to make arrangements for a later submittal.
- **Avoid missed Quiz dates** by staying in contact [susmwhite@hotmail.com](mailto: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 5-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:

In the rare event of cheating, the following results in a failing grade for an activity:

- 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 hour for EACH Lab Assignment Materials:** Pencils, Pens, Erasers, Notebook Paper, Calculator, & Ruler. **Suggested:** Protractor, Graph Paper, Colored Pencils

Lab Scoring Guide		
POINTS	GRADE	CRITERIA:
13 - 15 Points	A	Legible answers including complete numerical values including decimal points & required values per Lab question. Show math work, stapled to lab when part of assignment.  Construction and/or interpretation of graphs, charts, and map & photos, and written complete sentences as required to answer the lab questions for full understanding of the concepts and objectives.
8 - 12 Points	B	Legible answers including complete numerical values but missing decimal places or one or two-word written answers that do not fully address the lab concepts and objectives. Missing portions of the lab assignment.
4 - 7 Points	D	One word answers requiring additional explanation. 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 = <b>0</b> Points & <b>F</b> for Lab assignment.

**Class Schedule – Physical Geography Laboratory**

<b>CLASS DATES:</b>	<b>LAB TOPICS:</b>	<b>ASSIGNMENTS &amp; EXAMS:</b>
<b>Week 1</b> M-1/6/14 Th-1/9/14	<u><b>Physical Geography LAB:</b></u> Syllabus & Class Requirements <u><b>TOPICS:</b></u> <b>Ch. 1-</b> Scientific Method & Earth systems <b>Ch. 2-Earth measurement:</b> Location Coordinates; Latitude & Longitude & Time; <b>Ch. 3-Earth-Sun Relationship</b>	<b>Lab Exercise #1 – 10 Points</b> <b>Lab Manual</b> – Complete Lesson 1-pages 1-10  <b>Lab Exercise #2 – 10 Points</b> Lesson 3, pages 29-38 & 39-45  <b>Lab Exercise #3 – 10 Points</b> Lesson 6, pages 73-90  <b>Lab Quiz 1 – 10 Points</b> - Thursday, Jan. 9, 2014
<b>Week 2</b> M-1/13/14 Th-1/16/14	<u><b>TOPICS:</b></u> - <b>Ch. 2-</b> Geographic Distance, Map Scale, Map Projections; Elevation: Isoline Maps, & Contour Maps  <b>Ch. 3, 4, 5</b> The Atmosphere, Temperature Controls; Atmospheric Circulation-Pressure & Winds; Humidity, Condensation & Precipitation	<b>Lab Exercise #4 – 10 Points</b> Lesson 4, pages 47-58  <b>Lab Exercise #5 – 10 Points</b> Lesson 5, pages 59-71  <b>Lab Exercise #6 – 10 Points</b> Lesson 7, pages 83-92  <b>Lab Exercise #7 – 10 Points</b> Lesson 8, pages 91-101 Lesson 9, pages 103-114
<b>Week 3</b> T-1/21/14 – Th-1/23/14  <b>Lab Quiz 2</b> Th. 1/23/14	<u><b>NO CLASS MONDAY</b></u> <u>January 20<sup>th</sup>, 2014</u> <u>Martin Luther King, Jr. Holiday</u>  <u><b>TOPICS:</b></u> <b>Ch. 6, 7</b> Air Masses, Barometric Pressure; Weather Systems; Fronts & Weather Maps; <b>Ch. 11-Biomes</b>	<b>Tues. Lab Exercise #8 – 10 Points</b> Lesson 10-11, pages 115-124  <b>Wed. Lab Exercise #9 – 10 Points</b> Lesson 11, pages 125-132 <u><b>*Homework – Lab #10: – [5 Pts.]–Due Th. 2/6/13</b></u> Lesson 15, pages 165-170 – <i>Online Biomes</i>  <hr/> <b>Lab Quiz 2 – 10 Points – Thursday 1/23/14</b> <i>Map interpretation, short answers, &amp; multiple choice.</i>
<b>Week 4</b> M-1/27/14 –	<u><b>TOPICS:</b></u> <b>Ch. 8,9,10</b> Climate & Climographs; Biogeography	<b>*Lab Exercise #10– [5 + 5]=10 Points</b> Lesson 12, pages 133-163

Th-1/30/14	<p><b>Ch. 12-</b>Soils &amp; Properties, Climates, Biomes &amp; Soils</p> <p><b>Ch. 13, 14</b> Earth Materials &amp; Plate Tectonics, Properties of Rocks, Volcanism &amp; Geologic structures, &amp; mapping.</p>	<p><b>Lab Exercise #11– 10 Points</b> Lesson 16, Pages 165-178</p> <p><b>Lab #12-13 – 20 Points</b> Lesson 17, Pages 179-201 [10 Pts.] Lesson 18, pages 205-208 &amp; Lesson 19, pages -209-227 [10 Pts.]</p> <p style="text-align: center;"><i>Final Lab Exam Review</i></p>
<p><b>Week 5</b> M-2/3/14 - Th-2/6/13</p>	<p><b>TOPICS:</b> <b>Ch. 15-</b>Landforms- Gradation, Weathering &amp; Mass Wasting; <b>Ch. 16-</b>Karst &amp; groundwater <b>Ch. 17-</b>Fluvial Hydrology – Stream Channels &amp; Erosion <b>Ch. 18, 19, 20 -</b> Arid, Glacial Landforms, &amp; Oceanic Properties</p>	<p><b>Lab Exercise #14– 15 Points</b> Lesson 20, pages 229-236, Lesson 21, pages 237-240 Lesson 22, pages 241-254</p> <p><b>Lab Exercise #15 – 15 Points</b> Lesson 23, pages 255-261 Lesson 24, pages 263-276 Lesson 25, pages 277-283</p> <p><b>Lab Final: 40 Points - Thursday, 2/5/14</b> <i>Use calculator, <u>no</u> Scantron required.</i></p>

### 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](mailto:Student.LACCD@Edu) account daily/weekly. To access your account visit [www.wlac.edu](http://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](mailto: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 (DSPPS) Office in the Student Services Building room 320 or at (310) 287-4423. The DSPPS 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 **Wed. January 8<sup>th</sup>, 2014.** The last day to drop without a "W" is **Wed. Jan. 8<sup>th</sup>, 2014.** The last day to drop with a "W" is **Friday, January 31<sup>st</sup>, 2014.**

**For more information on all policies go to:**

[http://www.wlac.edu/academics/pdf/WLAC\\_12-14Catalog\\_Policies.pdf](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 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 plagiarism or cheating charge. Instructors have the authority to use plagiarism detecting instruments such as "Turn It In" to detect academic dishonesty.

### **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](mailto:onlinecounseling@wla.edu)

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### **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:

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