

# WEST LOS ANGELES COLLEGE

WINTER 2016 (1/4/2016 to 2/7/2016)

PHYSICAL GEOLOGY LAB – GEOLOGY 006 (SECTION # 1178)

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## TENTATIVE COURSE SCHEDULE {M-Th 10:45 - 1:15 pm}

DATE	ACTIVITY	LAB MANUAL READING
JAN 4	1. THINKING LIKE A GEOLOGIST	PAGES 1-38
JAN 5	2. TOPOGRAPHIC MAPS AND ORTHOIMAGES	PAGES 227-258
JAN 6	3. PLATE TECTONICS AND THE ORIGIN OF MAGMA	PAGES 39-72
JAN 7	4. EARTHQUAKE HAZARDS AND HUMAN RISKS	PAGES 391-404
JAN 11	REVIEW	
JAN 12	1 <sup>ST</sup> MID-TERM EXAM - AT 11:00 AM	
JAN 13	5. MINERAL PROPERTIES, IDENTIFICATION, AND USES	PAGES 73-110
JAN 14	6. IGNEOUS ROCKS AND PROCESSES	PAGES 129-152
JAN 19	7. SEDIMENTARY PROCESSES, ROCKS AND ENVIRONMENTS	PAGES 153-186
JAN 20	8. METAMORPHIC ROCKS, PROCESSES, AND RESOURCES	PAGES 187-206
JAN 21	REVIEW	
JAN 25	2 <sup>ND</sup> MID-TERM EXAM - AT 11:00 AM	
JAN 26	9. GEOLOGIC STRUCTURES, MAPS, AND BLOCK DIAGRAMS	PAGES 259-282
JAN 27	10. DATING OF ROCKS, FOSSILS, AND GEOLOGIC EVENTS	PAGES 207-226
JAN 28	11. STREAM AND GROUNDWATER PROCESSES	PAGES 283-328
FEB 1, 2	12. PROJECT	HANDOUT
FEB 3	REVIEW	
FEB 4 @ 11:00 AM	FINAL EXAM	

*Note: Jan 18, 2016 is Martin Luther King's Day. College will be closed!*

### TEXTBOOK (REQUIRED):

Busch, R.M., ed. (2015). *Laboratory Manual in Physical Geology*. 10<sup>th</sup> Edition. American Geological Institute - National Association of Geoscience Teachers. PEARSON/Prentice Hall. ISBN 978-0-321-94451-1

*No student will be allowed to sit in the Lab without a Lab Manual!*

**TRANSFER:** CSU, UC

**PREREQUISITE/CO-REQUISITE:** Physical Geology (Geology 1)

**COURSE RATIONALE & OBJECTIVES:**

Geology 6 is a 2-unit laboratory course. It is an introduction to common laboratory and field practices in physical geology such as identifying common minerals and rocks, understanding topographic and geological maps, applications of plate tectonics; the geologic work of running (surface) and groundwater, and analyzing hazards related to earthquakes and volcanoes.

**STUDENT LEARNING OUTCOMES:**

*Upon completion of this course the student will be able to:*

1. Identify common minerals & rocks on the basis of their physical properties; determine the relative and absolute ages of rocks.
2. Analyze the role of plate tectonics in changing the sizes of the Earth's continents and oceans; explain the relationships between plate tectonics and distribution of volcanoes and earthquakes; graph seismic data to locate the epicenter and to determine the magnitude of earthquakes.
3. Analyze topographic and geologic maps to interpret the geologic and deformational history of an area.
4. Analyze landforms formed by and hazards related to surface/running and groundwater.

**LAB ATTENDANCE POLICY:**

Absence from a lab session will result in zero marks for that lab assignment. Irrespective of the reason for absence, no make-up lab will be given to anyone who does not show up during the scheduled lab sessions. Students are responsible for all work missed when absent. If a student has been absent from 3 labs during the semester, for whatever reason, that student will be dropped from class at any time during the semester.

Occasional tardiness of up to 10 minutes may be tolerated. If a student has been arriving late during 6 lab sessions, that student will be dropped from class. Tardiness during two lab sessions will be considered as being absent for one full lab session. A student might as well be dropped if he/she had a combined absence and tardiness that add up to 3 absences. Students who arrive more than 10 minutes after the start of the lab session will not be allowed to sit in lab.

**LAB WORK:**

A typical lab session lasts 2½ hours and is worth 20 points. During each lab session, students will be provided with worksheets on which to write their work. The project is worth 80 points.

Each student must complete and submit the lab worksheet before leaving the laboratory. Students who do not submit their lab worksheet on the day the lab was conducted will not be allowed to submit it at a later date. If for legitimate reasons the instructor approves a student to submit his/her lab work at a later date, the student must submit the lab work before the start of the next lab. No lab work can be submitted after graded lab worksheets have been returned to other students. And remember, a student has to submit his work in person; a student cannot submit a lab worksheet on behalf of another student.

The instructor will return graded lab worksheets at the beginning of the next lab session. Review of the previous lab will be done during the first 10-15 minutes of the new lab session. Following the review of the previous lab, there will be a 30-40 minutes introduction to the new lab. Students are therefore expected to arrive in the lab on time.

### EXAMS AND GRADING:

There will be three exams for this course. Tentative exam dates are shown in this syllabus; if there will be any changes in the schedule, your instructor will announce these in advance.

*Your final grade will be determined by the following:*

*Final letter grades will be assigned as follows:*

1 <sup>st</sup> Mid-term Exam	100 points	A: ≥540 points
2 <sup>nd</sup> Mid-term Exam	100 points	B: 480-539 points
Final Exam	100 points	C: 420-479 points
11 Labs	220 points	D: 360-419 points
<u>Project</u>	<u>80 points</u>	F: <360 points
<b>TOTAL</b>	<b>600 points</b>	

### POLICY ON EXAM MAKE-UPS:

Students should take exams on the scheduled dates; otherwise they will score zero points for that exam. There will be NO make-up exams except for valid and verifiable reasons (for example, if you were ill, you must submit a doctor's note). If you have a problem on the day of the exam you, your relatives or friends must e-mail or call your instructor before the scheduled exam time. *Approved make-up exams can only be taken during the last week of classes on a date to be determined by your instructor.*

### POLICY ON ACADEMIC DISHONESTY & CONDUCT IN CLASS:

Pursuant to West Los Angeles College's [WLAC] policy on student conduct, all forms of disruptive behaviors such as private talking, use of cell phones and texting while class is in session, as well as going out of class to answer or make a call etc. will not be allowed. These behaviors detract from the learning experience of others in the class. Students should make certain that cell phones are turned off before entering the class. In addition, eating &/or drinking beverages (except water) in the classroom, as well as chewing gum are prohibited. These and other college policies on academic integrity (cheating, plagiarism) will be strictly enforced. Students should read WLAC's publication on all aspects of student conduct outlined in the most recent College Catalog or by logging onto the College website at [http://www.wlac.edu/academics/pdf/WLAC\\_12-14Catalog\\_FRONT.pdf](http://www.wlac.edu/academics/pdf/WLAC_12-14Catalog_FRONT.pdf).

*Consequences of Misconduct:* Violators of College regulations and rules are subject to disciplinary action under Board Rule 9803.15 of the Los Angeles Community College District. Depending upon the seriousness of the conduct, disciplinary procedures may range from a warning to removal from the class with a referral to the Vice President of the College.

### DEADLINES

If you decide to withdraw from this course, you must file appropriate papers in the Admissions Office. Students should adhere to Add/Drop policies & deadlines of the College. It is the student's responsibility to officially drop out of the course, when he/she stops attending. Otherwise, grades other than a "W" may be assigned.

### STUDENTS WITH DISABILITY

If a student has disability (with special physical, communication or learning needs) and requires accommodations, he/she should contact the Disabled Students Programs & Services (DSPS) located on the first floor of the Heldman Learning Resources Center (HLRC). DSPS' phone number is (310) 287-4450.

*This syllabus may be modified in order to better meet student needs or in the event of an emergent matter.*