

WEST LOS ANGELES COLLEGE
PHYSICAL GEOLOGY LAB – GEOLOGY 006

Instructor: DR. BERAKI WOLDEHAIMANOT

Spring 2015 (Feb. 9th – Jun 7th, 2015)

Phone: (310) 287-4524

Section 1178: Tuesdays 13:00-16:15; Bldg. MSA 307

Email: Woldehb@wla.edu

Office hours: M-Th 8:30-9:30; W 15:40-17:00 &
by Appointment

Office: MSB-226

LAB SCHEDULE (Tentative)

DATE	ACTIVITY	LAB MANUAL READING
FEB 10	1. THINKING LIKE A GEOLOGIST	LAB 1 - PAGES 1-38
FEB 24	2. TOPOGRAPHIC MAPS AND ORTHOIMAGES	LAB 9 - PAGES 227-258
MAR 3	3. PLATE TECTONICS AND THE ORIGIN OF MAGMA	LAB 2 - PAGES 39-72
MAR 10	4. EARTHQUAKE HAZARDS AND HUMAN RISKS	LAB 16 - PAGES 391-404
MAR 17	1ST MID-TERM EXAM	
MAR 24	5. MINERAL PROPERTIES, IDENTIFICATION, AND USES	LAB 3 - PAGES 73-110
APR 14	6. IGNEOUS ROCKS AND PROCESSES	LAB 5 - PAGES 129-152
APR 21	7. SEDIMENTARY PROCESSES, ROCKS AND ENVIRONMENTS	LAB 6 - PAGES 153-186
APR 28	8. METAMORPHIC ROCKS, PROCESSES, AND RESOURCES	LAB 7 - PAGES 187-206
MAY 5	2ND MID-TERM EXAM	
MAY 12	9. GEOLOGIC STRUCTURES, MAPS, AND BLOCK DIAGRAMS	LAB 10 - PAGES 259-282
MAY 19	10. DATING OF ROCKS, FOSSILS, AND GEOLOGIC EVENTS	LAB 8 - PAGES 207-226
MAY 26	11. STREAM AND GROUNDWATER PROCESSES	LABS 11/12 - PAGES 283-328
MAY 26	12. PROJECT (DUE ON JUN 4 TH)	HANDOUT
JUN 4 @ 1:45 PM (THURSDAY)	FINAL EXAM	

TEXTBOOK (REQUIRED):

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

Remember: No student will be allowed to sit in the Lab without the 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 any 3 lab sessions during the semester, for whatever reason, that student will be dropped from class at any time during the semester.

Occasional tardiness of up to 5 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.

LAB WORK:

A typical lab session lasts for 3 hours and is worth 20 points. During each lab session, students will be provided with worksheets on which to write their work. Students must collect the worksheets for use for upcoming lab from their instructor. By having the worksheets a week earlier students are expected to read the lab introductions and make the necessary preparations before coming to the lab. If a student loses a worksheet or forgets it at home, the instructor will not give that student a replacement; Lab work written on a plain paper other than the instructor-provided worksheet will not be graded.

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.

SUPPLEMENTAL RESOURCES ON ETUDES:

Weekly worksheets (Labs), including this course syllabus will be posted on *Etudes*, an online course management system of the West Los Angeles College. Posting the worksheets on *Etudes* will help students to read and prepare themselves about the forthcoming laboratory. Printouts of the worksheets will be distributed by your instructor in class on the day of the lab.

By the first day of classes, instructions on how to log on to the Etudes website will have been emailed to all course participants who have valid student email accounts with the College.

ETUDES User ID

Your Etudes **User ID** is your Student ID Number (not your SS#).

Example: Jose Garcia has the following Student ID: 880123456

Based on this example, Jose's ETUDES **User ID** would be **880123456**

ETUDES Password (first time login)

Your Etudes password is the **MonthDay** of your birth in school records.

Example: Jose Garcia's birthday is April 11th, 1982 (04/11/82). His ETUDES Password would be 0411

When you log in for the first time Etudes will ask you to change your password.

EXAMS, PROJECT, AND GRADING:

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

Exams will cover material completed during lab sessions. The final exam is NOT cumulative. It will only include labs done after the second midterm exam.

For each exam you will need to bring the following items: Regular Scantron (Form No. **882 E**), a ruler, a simple calculator, pencil and eraser.

Your final grade will be determined by the following: *Final letter grades will be assigned as follows:*

1 st Mid-term Exam	100 points	A: \geq 480 points
2 nd Mid-term Exam	100 points	B: 430-479 points
Final Exam	100 points	C: 320-429 points
<u>12 Labs</u>	<u>240 points</u>	D: 270-319 points
TOTAL	540 points	F: <269 points

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. Make-up exams, when approved, will take place on a date 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.

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.

COLLEGE IS CLOSED ON THE FOLLOWING DAYS:

Presidents' Day: Feb 13 - Feb 16

Cesar Chavez Day: Mar 31

Spring Break: April 4 - April 10

Memorial Day: May 25

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