**Instructor:** DR. BERAKI WOLDEHAIMANOT  
**Office:** MSB-226  
**Office hours:** M, W 8:30-9:30 am; Tu 4:30-5:40 pm; and by appointment  
**Phone:** (310) 287-4524  
**Email:** Woldehb@wlac.edu

**Spring 2014 (Feb 10 – Jun 9, 2014) Location: MSA 307 Section # 1178 Tuesdays 1:00 - 4:15 pm**

**PHYSICAL GEOLOGY LAB - GEOLOGY 6 (2 UNITS)**

<table>
<thead>
<tr>
<th>Date</th>
<th>Activity</th>
<th>Lab Manual Reading</th>
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<tbody>
<tr>
<td>Feb 11</td>
<td>INTRODUCTION</td>
<td></td>
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<tr>
<td>Feb 18</td>
<td>LAB 1. OBSERVING AND MEASURING EARTH MATERIALS AND PROCESSES</td>
<td>PAGES 1-29</td>
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<tr>
<td>Feb 25</td>
<td>LAB 2. PLATE TECTONICS AND THE ORIGIN OF MAGMA</td>
<td>PAGES 31-56</td>
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<td>Mar 4</td>
<td>LAB 3. TOPOGRAPHIC MAPS</td>
<td>PAGES 195-226</td>
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<tr>
<td>Mar 11</td>
<td>LAB 4. EARTHQUAKE HAZARDS AND HUMAN RISKS</td>
<td>PAGES 349-362</td>
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<tr>
<td>Mar 18</td>
<td>1st MID-TERM EXAM (LABS 1, 2, 3, 4)</td>
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<tr>
<td>Mar 25</td>
<td>LAB 5. MINERAL PROPERTIES, USES, AND IDENTIFICATION</td>
<td>PAGES 57-88</td>
</tr>
<tr>
<td>Apr 1</td>
<td>LAB 6. IGNEOUS ROCKS AND VOLCANIC HAZARDS</td>
<td>PAGES 103-126</td>
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<td>Apr 15</td>
<td>LAB 7. SEDIMENTARY ROCKS, PROCESSES, AND ENVIRONMENTS</td>
<td>PAGES 127-154</td>
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<tr>
<td>Apr 22</td>
<td>LAB 8. METAMORPHIC ROCKS, PROCESSES, AND RESOURCES</td>
<td>PAGES 155-174</td>
</tr>
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<td>Apr 29</td>
<td>2nd MID-TERM EXAM (LABS 5, 6, 7, 8)</td>
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<tr>
<td>May 6</td>
<td>LAB 9. GEOLeGIC MAPS</td>
<td>PAGES 227-248</td>
</tr>
<tr>
<td>May 13</td>
<td>LAB 10. DATING OF ROCKS, FOSSILS, AND GEOLOGIC EVENTS</td>
<td>PAGES 175-194</td>
</tr>
<tr>
<td>May 20</td>
<td>LAB 11. STREAM AND GROUNDWATER PROCESSES</td>
<td>PAGES 249-272; 273-292</td>
</tr>
<tr>
<td>May 27*</td>
<td>LAB 12. Project</td>
<td>HANDOUT</td>
</tr>
<tr>
<td>Jun 5@ 1:45 PM (THURSDAY)</td>
<td>FINAL EXAM (LABS 9, 10, 11, 12)</td>
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* May 27 is a non-instructional day; students shall complete Lab # 12 (Project) at home or in the library.

**Textbook (Required):**  

**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; no student will be allowed to sit in the Lab without a worksheet and without a Lab Manual.

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, 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.
For each exam you will need to bring the following items: Regular Scantron (882 E), a ruler, a simple calculator, pencil and eraser.

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

<table>
<thead>
<tr>
<th>Exam Type</th>
<th>Points</th>
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<tbody>
<tr>
<td>1st Mid-term Exam</td>
<td>100</td>
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<tr>
<td>2nd Mid-term Exam</td>
<td>100</td>
</tr>
<tr>
<td>Final Exam</td>
<td>100</td>
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<tr>
<td>Labs</td>
<td>240</td>
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<td><strong>TOTAL</strong></td>
<td><strong>540</strong></td>
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**Final letter grades will be assigned as follows:**

- **A:** ≥ 486 points (≥ 90%)
- **B:** 432-485 points (80-89%)
- **C:** 378-431 points (70-79%)
- **D:** 324-377 points (60-69%)
- **F:** <324 points (< 60%)

Once graded exam papers are returned to students and reviewed, they will have to be returned to the instructor.

Final grades for the course will be posted on the College's “Student Information System” within 10 days after the final exam. To log on to the site open the college’s webpage (www.wlac.edu) and click the button titled “Student Information System (SIS)”.  

**WANT TO RECEIVE HONOR’S CREDIT?**
Do you plan to transfer to UC/CSU? Do you want to receive Honors Credit for Geology 6, which is a transferrable general education course? If yes, your instructor is willing and encourages you to go for it. 
*Please contact your instructor during the first week of classes. Otherwise, you may not be considered for the program.* 
To be eligible for the Honor’s Credit, students must first be accepted into the Transfer Honors Program. Transfer Honors Application can be obtained from the Counseling Office. For More Information please contact Helen Young, Program Director phone (310) 287-4269 or email her at transferhonors@wlac.edu, or talk to Andrea Frederic, Transfer Honors Program Counselor at (310) 287-4260. To learn more visit http://www.wlac.edu/transfer/index.html#honors. Once accepted by the Program, the student will be given a contract that the student and the instructor must complete. Students who want to be part of this program must be prepared to do extra work and ensure that they can earn “A” or “B” grade.

**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**
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.

Remember, if you decide to withdraw from the course, you must file appropriate papers in the Admissions Office.

**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.

**IMPORTANT DATES:**

- **Last day to:**
  - Drop a class with a refund/no fee owed: Feb 21
  - Drop a class without a "W": Feb 21
  - Drop a class with a “W”: May 9

- **College is closed:**
  - Presidents’ Day: Feb 14-17
  - Cesar Chavez Day: Mar 31
  - Spring Break: April 7-13
  - Memorial Day: May 26
  - Non-Instruction Day: May 27

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