GEOL 112: Earth and Life through Time Laboratory
Spring 2018

Instructor: Bret Sample
Office hours: LO 1224 Tuesday 2:00 PM – 3:00 PM, or by appointment
Email: bret.sample.723@my.csun.edu (best way to contact me)
Phone: Department Office (818) 677-3541
Lab meeting: Class number: 16775, Section: 1, Room: Live Oak 1227, Tues. 11:00 AM – 1:45 PM
Class number: 17079, Section: 2, Room: Live Oak 1227, Wed. 5:00 PM – 7:45 PM

Course Description
Recommended Corequisite or Preparatory Course: GEOL 110. Course content includes introduction to fossil, relative-age relationships and construction and interpretation of maps and cross-sections that emphasize paleogeography and sedimentary rocks. May be used to satisfy the lab requirement in Natural Sciences of General Education provided GEOL 110 in completed. 3-hour lab.

Course objectives
GEOL 112 fulfills one of the two natural science lab requirements of the CSUN General Education program, as well as an introductory lab for the geology major. The course allows you to:
1. Demonstrate understanding of important concepts in Earth history;
2. Use the scientific method to evaluate and interpret scientific data and to reach reasoned conclusions;
3. Recognize the logical foundations and boundaries of geological science;
4. Recognize the contribution that an understanding of Earth history can make to assessing real world issues that affect Earth’s present and future.

Attendance and Coming Prepared for Lab
It is essential that you attend all labs, arrive on time, and stay until your group has completed the lab. If you are more than 30 minutes late, you receive a 10-point deduction for the lab. In order to get credit for the lab, you must be present when your group lab is submitted to the instructor. THERE ARE NO MAKE-UPS FOR MISSED LABS.
You are responsible for printing and bringing in the lab each week. They are posted on Canvas, and you should check the class Canvas page often.

The last day to drop the course is February 9, 2018.

Lab reports and lab groups
You will work in a lab group of four to six people. I will give each group a copy of the lab on which you can record your group answers to submit to me. Each group will turn in one lab report, for which you will all get the same grade. However, you should bring your own copy and record the answers so that you have it to study for the exams. Everyone must be a contributing member to their group. If there are problems, I will resolve them to ensure fairness of grades.

Academic Dishonesty
I will not tolerate any form of academic dishonesty. This includes but is not limited to copying answers during an exam, plagiarism, facilitating cheating by another student, and altering answers after I have graded your work. If I find evidence of academic dishonesty, I will report it to the Office of the Vice President for Student Affairs and recommend a letter of admonishment. If you are caught cheating on an exam or assignment, you will receive a failing grade for the exam or assignment. More than one offense of cheating will result in failing the entire course, as well as disciplinary action involving the Office of the Vice President for Student Affairs.
Accommodating students with Disabilities
If you have a disability and need accommodations, please register with the Disability Resource and Educational Services (DRES) office or the National Center on Deafness (NCOD). If you would like to discuss your need for accommodations with me, please contact me to set up an appointment.

Grading
There will be 9 lab reports. Each lab report is worth 20 points. The lowest score earned on ONE lab will be dropped. Take note that this covers either the lowest lab grade or a missed lab.

There will be two exams: a midterm and a final. The midterm is worth 40 points. The final exam is worth 50 points. The final is not cumulative. There are no make-up exams. I will evaluate individual cases where documentation of a serious emergency or illness is provided. Grading will be on the +/- CSUN system.

<table>
<thead>
<tr>
<th>lab reports</th>
<th>160 points</th>
<th>93-100%</th>
<th>A</th>
<th>80-83%</th>
<th>B-</th>
<th>67-70%</th>
<th>D+</th>
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<tbody>
<tr>
<td>lab exams</td>
<td>90 points</td>
<td>90-93%</td>
<td>A-</td>
<td>77-80%</td>
<td>C+</td>
<td>63-67%</td>
<td>D</td>
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<tr>
<td>total</td>
<td>250 points</td>
<td>87-90%</td>
<td>B+</td>
<td>73-77%</td>
<td>C</td>
<td>60-63%</td>
<td>D-</td>
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83-87% | B | 70-73% | C- | <60% | F |

NO GRADE OF INCOMPLETE WILL BE GIVEN FOR THIS COURSE.

Textbook
There is no textbook for this lab. All the required reading material will be provided in the labs.

Laboratory topics and tentative schedule
*This schedule/syllabus is subject to change* Check Canvas often for revisions. I will notify you of any changes made.

<table>
<thead>
<tr>
<th>DATE (T/W)</th>
<th>TOPIC</th>
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<tbody>
<tr>
<td>Jan 23/24</td>
<td>Introduction to lab: Review of syllabus, class policies, and intro to sedimentary rocks</td>
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<tr>
<td>Jan 30/21</td>
<td>Lab 1: Properties of sediment grains, Part 1</td>
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<tr>
<td>Feb 6/7</td>
<td>Lab 2: Properties of sediment grains, Part 2</td>
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<tr>
<td>Feb 13/14</td>
<td>Lab 3: Detrital sedimentary rocks and depositional environments</td>
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<tr>
<td>Feb 20/21</td>
<td>Lab 4: Chemical and biochemical rocks and depositional environments / Review Session</td>
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<td>Feb 27/28</td>
<td>Exam 1: Labs 1-4</td>
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<td>Mar 6/7</td>
<td>No Class</td>
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<tr>
<td>Mar 13/14</td>
<td>Lab 5: Geologic Time, Fossil Preservation, Marine Ecosystems</td>
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<tr>
<td>Mar 20/21</td>
<td>Online Lab – No In-Class Meeting</td>
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<td>Mar 27/28</td>
<td>Lab 6: Major Fossil Groups from Marine Realm</td>
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<tr>
<td>Apr 3/4</td>
<td>Lab 7: Dinosaurs</td>
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<td>Apr 10/11</td>
<td>Lab 8: Mammal Skulls</td>
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<td>Apr 17/18</td>
<td>Lab 9: Becoming Human</td>
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<td>Apr 24/25</td>
<td>TBD</td>
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<td>May 1/2</td>
<td>Exam 2: Labs 5-9. This is your final exam and the last lab meeting of the semester.</td>
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