GEOL 102 L: Geology of Planet Earth
Fall 2018
(version 3 – 9/4/2018)

Time: Wed. 8 – 10:45 AM (class #: 17561) or Thurs. 5 – 7:45 PM (class #: 18307)
Location: Eucalyptus Hall 2221
Instructor: Greg Jesmok (gregory.jesmok.749@my.csun.edu, 818-677-2039)
Website: Canvas
Office Hours: 3:00-4:00 PM
Wednesday & Thursday or by appointment (Live Oak 1229)

Text: Laboratory Manual for Introductory Geology 3rd edition
by A. Ludman & S. Marshak

1. Course Scope and Objectives

Course Scope
GEOL 102 L is an introductory course for an undergraduate focusing on the basics of laboratory study with application to the study of the geology of planet Earth. Geology is the study of Earth and Earth processes, involving knowledge of physics, mathematics, biology, and chemistry, amongst other subjects. It covers both large- and small-scale processes and can be extrapolated for application to planetary processes. The focus of this class, however, will remain on the surface, sky, biota, and oceans of Earth and how they interact with one another.
The course will meet once a week, either on Wednesday or Thursday, depending on your section/class #, and will usually feature a lecture, a short activity, and a set of exercises to be completed prior to the following class meeting. I strongly encourage tackling problems together as a group and appreciate questions focused on the material at hand.

Learning Objectives
- Basic understanding of Plate Tectonics
- Assessment of various physical properties of minerals
- Basic identification of igneous, sedimentary, and metamorphic rocks
- The use of geologic maps
- Understanding the different landscapes and landforms created through time
- Understanding earthquake assessment and quantification
- A sense of geologic time
- Critical assessment of geologic studies
2. Tentative Schedule
The schedule provided below represents an outline of the topics covered in this course, the corresponding reading in the text, and the rough timing of each lab. Please note that this is a tentative schedule and is subject to adjustment.

Note: there will be no class on the following day: November 21st/November 22nd

<table>
<thead>
<tr>
<th>Month</th>
<th>Week</th>
<th>Topic</th>
<th>Page #s in Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>August</td>
<td>1</td>
<td>Introductions &amp; Syllabus</td>
<td>~~~</td>
</tr>
<tr>
<td>September</td>
<td>2</td>
<td>Lab 1: Setting the stage for Learning about the Earth</td>
<td>1 – 24</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Lab 2: Plate Tectonics</td>
<td>25 – 54</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>Lab 3: Minerals</td>
<td>55 – 84</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>Lab 4: Minerals, Rocks, and the Rock Cycle</td>
<td>85 – 104</td>
</tr>
<tr>
<td>October</td>
<td>6</td>
<td>Lab 5: Sedimentary Rocks</td>
<td>135 – 164</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>Midterm Examination (Labs 1 – 5)</td>
<td>~~~</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>Lab 6: Igneous and Metamorphic Rocks</td>
<td>105 – 134, 165 – 188</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>Lab 7: Maps (Topographic &amp; Contour)</td>
<td>193 – 234</td>
</tr>
<tr>
<td>Oct./Nov.</td>
<td>10</td>
<td>Lab 8: Landforms (Stream &amp; Groundwater)</td>
<td>235 – 268, 295 – 314</td>
</tr>
<tr>
<td>November</td>
<td>11</td>
<td>Lab 9: Landforms (Arid Locales &amp; Shoreline)</td>
<td>315 – 372</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>Lab 10: Interpreting Geologic Structures</td>
<td>373 – 406</td>
</tr>
<tr>
<td></td>
<td>13</td>
<td>No class</td>
<td>~~~</td>
</tr>
<tr>
<td></td>
<td>14</td>
<td>Lab 11: Earthquakes and Seismology</td>
<td>407 – 430</td>
</tr>
<tr>
<td>December</td>
<td>15</td>
<td>Final Examination (Labs 6 – 11)</td>
<td>~~~</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>Relaxation (No class)</td>
<td>~~~</td>
</tr>
</tbody>
</table>

3. Assignments, Workload and Grading

Assignments

11 lab assignments

- Each lab assignment will be graded on a 10-point scale and is due the following week at the beginning of class. Laboratory assignments will be completed in groups of four people or fewer, with only one assignment needed to be turned in for the entire group (make sure to include everyone’s name!!!!). Each assignment must include your section/class number for full credit and can be turned in by solely one member of a group. The 10 highest scored assignments will be used to calculate the lab assignment portion of the grade for each student (meaning that groups will be altered, so that the work does not fall to one student). The lab with the lowest point total will be added to the exam point total score (not percentage).
In-class Question Sessions

11 In-class question sessions
- Each laboratory meeting will feature a few (3 – 5) questions at or near the beginning of class based upon the previous week’s work. These questions may/may not be found on the midterm/final examination (*hint hint*). To receive full credit (1% of total grade), one must attend/answer questions at 10 out of 11 lab meetings following a laboratory assignment.

Examinations
There are **NO MAKEUPS** for exams or exercises associated with unexcused absences. All absences are considered unexcused except those I deem otherwise.

An individual is allowed one 5x7 notecard for each examination.

1 midterm examination (covering labs 1-5)
- The midterm examination will be graded on a 100-point scale.
  - ~33% of overall exam score will be multiple-choice
  - ~33% of overall exam score will be short-form answer/ fill-in-the-blank
  - ~33% of overall exam score will be long-form answer/”essay”

1 final examination (covering labs 6-11)
- The final examination will be graded on a 100-point scale.
  - ~33% of overall exam score will be multiple-choice
  - ~33% of overall exam score will be short-form answer/ fill-in-the-blank
  - ~33% of overall exam score will be long-form answer/”essay”

Any further details regarding the assignments or exams will be provided in class and on Canvas.

Extra Credit
Due to skipping two of the labs found in the book, each additional lab completed may be worth up to 2.5% of the overall grade. These labs must be turned in prior to/at the final examination on an individual student basis.

Workload
This class is a 1-unit course, with the expectation that an individual would spend ~4 hours/week on assignments & lab sections.

**Final grades** will be calculated as follows:

- Lab assignments: 50%
- In-class Questions: 10%
- Midterm: 20%
- Final: 20%
- Extra Credit: $x/5\%$ where $x$ is the % score of those additional labs completed
Letter grades will be assigned as follows:

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Grade</th>
<th>Percentage</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>93-100</td>
<td>A</td>
<td>73-76.9</td>
<td>C</td>
</tr>
<tr>
<td>90-92.9</td>
<td>A-</td>
<td>70-72.9</td>
<td>C-</td>
</tr>
<tr>
<td>87-89.9</td>
<td>B+</td>
<td>67-69.9</td>
<td>D+</td>
</tr>
<tr>
<td>83-86.9</td>
<td>B</td>
<td>63-66.9</td>
<td>D</td>
</tr>
<tr>
<td>80-82.9</td>
<td>B-</td>
<td>60-62.9</td>
<td>D-</td>
</tr>
<tr>
<td>77-79.9</td>
<td>C+</td>
<td>&lt; 60</td>
<td>F</td>
</tr>
</tbody>
</table>

4. Ethics
All students are expected to adhere to CSUN’s policy on academic dishonesty. Cheating and plagiarism will result in the assignment of a zero for the assignment and notification to the Office of Vice President of Student Affairs, which will go on your permanent record and may result in disciplinary action. For more on CSUN’s code of academic dishonesty, please see the following links:
http://catalog.csun.edu/policies/academic-dishonesty/
http://catalog.csun.edu/policies/penalties-for-academic-dishonesty/
http://catalog.csun.edu/policies/student-conduct-code/

Collaborative learning both in class and out is encouraged. This includes discussing the topics, material, and working through problems. Most assignments will be completed in groups, but some may require that everyone must turn in their own copy. If you are unsure whether you can collaborate, please ask.
Use of technology in the classroom will be limited to laptops, IPads, notepads, cell phones, etc. for note taking or looking up information requested.

5. Other
Incomplete
I do not give any incomplete grades for the lab section of the course, unless it is adjudicated with the department chair that you meet the proper criteria for consideration.

Course addition
If you would like to add the course, you may sign up via SOLAR. Use the E-waiting List. You may find more information here:
https://www.csun.edu/admissions-records/late-add-drop-classes

Course drop
It is YOUR responsibility to drop a course. The instructor cannot do so. Information and deadlines for drop policies can be found at the website below:
https://www.csun.edu/admissions-records/drop-or-swap-classes
Classroom Etiquette
I ask that you please remain off your cell phones during class time. If you need to make a call
during class, please leave the classroom to do so.
You should be familiar with campus parking and traffic, so these are not extremely valid
excuses for class tardiness. If, on occasion, you are late, it is your responsibility to get notes
from another student.
Eating and drinking in class are allowed. However, if it distracts from completion of the
laboratory assignment and/or the workspace is not clean at the end of class, I will have to
revoke this allowance.

Unforeseen Circumstances
Keep in mind that unforeseen circumstances during the semester might require changes to the
syllabus. In this event, a revised syllabus will be posted to Canvas at least one week in advance
of the implementation of the change. The original syllabus will remain available and the revised
syllabus will be identified by the date of the revision as part of the file name. Dates of
examinations will never be moved forward.

Academic Grievances and Grade Appeals
A grievance or appeal must be presented in writing before the end of the semester following
the semester in which the grade was assigned. Academic grievances may be filed when a
student feels aggrieved in (non-grade) matters concerning an academic decision, action or
judgment by a faculty member. A grade appeal may be filed when a student believes a grade is
based in error, violation of University rule or policy, refusal by the instructor to report a grade,
discrimination or other improper conduct towards a student. Complete information on the
process can be found at the link below:
https://catalog.csun.edu/policies/academic-grievances-and-grade-appeals/