GEOL 336L  
SEDIMENTOLOGY & LITHOSTRATIGRAPHY LABORATORY  
San Diego State University  
Department of Geological Sciences & Oceanography  
SPRING SEMESTER, 2015  
Instructor: Mario V. Caputo, PhD  
Office: GMCS 228C  
Day, Time, & Location of Lab: F 12:00 – 2:50 p.m.  
Classroom: CSL 422 or in the field  
Office Hours: Th 4:00–6:00 p.m. & F 3:00–4:00 when not on field trip  
Telephone: (909) 214-7742 (mobile phone)  
Email: mvcaputo@earthlink.net  
Graduate T. A.: Ellen Buelow

Materials Recommended for Lab Class:  
Laboratory Exercises: unpublished series of lab and field exercise distributed via Blackboard  
Other: pencils, eraser stick, notebook, colored pencils, hand lens, sand gauge (provided), pocket calculator, 12-inch/30-cm English/metric clear plastic ruler, plastic drafting triangles, pocket transit (i.e. Brunton™ compass) for certain field trips.

PROPOSED LABORATORY OUTLINE  
PLEASE NOTE: The following outline is tentative and may be modified as circumstances arise (i.e. emergencies, illnesses, conferences, unfavorable field-trip weather, etc.).

<table>
<thead>
<tr>
<th>Date</th>
<th>Lab/Field Exercise</th>
<th>Suggested Readings in:</th>
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</thead>
<tbody>
<tr>
<td>January</td>
<td>Sedimentary Petrology</td>
<td>(B) Boggs (2012)</td>
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<tr>
<td>30</td>
<td>2. Natural Sand Populations</td>
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<tr>
<td>March</td>
<td>Lithostratigraphy &amp; Sedimentary Petrology</td>
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<tr>
<td>6</td>
<td>6. Sandstones</td>
<td>(B) Ch 5 p101-122</td>
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<tr>
<td>13</td>
<td>8. Sandstone Petrography</td>
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<tr>
<td>20</td>
<td>Field Exercise: Stratigraphic Sections, LJ</td>
<td>(B) Ch 4; (T) Ch 5</td>
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<tr>
<td>27</td>
<td>TEST 1</td>
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<td>April</td>
<td>SPRING BREAK</td>
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<tr>
<td>10-12</td>
<td>Field Trip: Anza-Borrego Desert</td>
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<td>17</td>
<td>Field Exercise at La Jolla Bay</td>
<td>(B) Ch 10 p292-305</td>
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<tr>
<td>24</td>
<td>9. Carbonate sedimentary rocks</td>
<td>(B) Ch 6 p135-159</td>
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<tr>
<td>May</td>
<td>10. Carbonate Petrography</td>
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<td>8</td>
<td>Final Exam Friday, May 8, 2015 1:00-3:00 p.m.</td>
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Please note that on the SDSU Final Exam Schedule, there is no designated day and time for a final exam for a class that meets on Friday from noon to 3:00 p.m. Please alert Caputo of a final exam conflict if there is one.
LABORATORY INFORMATION

Purpose, Scope, & Setting
This is a built-in laboratory course to accompany the GEOL 336 Sedimentology & Lithostratigraphy lecture for the undergraduate student majoring in geology. It is meant to introduce the student to some of the lab and field tools, materials, and methods used to describe and interpret sediment and sedimentary rocks. Qualitative and quantitative problem-solving, connective thinking, practice and application of sedimentary concepts, and interpretation of data are emphasized rather than the memorization of terms and definitions.

For each week during each lab period, there will be either a different in-class lab exercise, a field trip exercise, or lab test. All in-class lab exercises are to be completed by the end of lab period. Only when a completed exercise has been verified by either Caputo or teaching assistant will points be earned and an answer key for that lab be given for the student to correct his or her own work. Certain designated field trip exercises will be submitted for grading.

Student Responsibilities
- Prompt arrival and daily attendance in lab;
- Full completion, in lab or in the field, of the exercise assigned for that day, unless directed otherwise.
- Keep a record of your lab attendance, lab work, all graded work, including tests and their scores.

Tests:
- One test will be given on a specified date after completion of a particular theme for a total of 2 tests, including a lab final. Tests will assess how well the student understands, applies, and practices the analysis of sediment and sedimentary rock. Questions will emphasize problem-solving, interpretation, recognizing siliciclastic and carbonate grains in hand-samples and thin sections.
- 2 take-home problems on sedimentary and stratigraphic analysis will be graded for points and be considered as tests.

Grades:
- A separate course grade is not given for the lab; your lab scores will be integrated with lecture scores for a final grade. See GEOL 336 lecture syllabus.
- Earning lab points:
  ☑ full completion and submission of all field and lab assignments
  ☑ 2 tests and 2 sedimentologic-stratigraphic analyses
  ☑ certain field exercises will be graded for points; students will be directed how and when to submit the completed field exercise as part of the instructions of the exercise.

OTHER POLICIES:
- Tardiness:
  ☑ If arriving after lab begins, instructions and assignments are to be obtained on your own.
- Absences
  ☑ If absent for a lab, all work must be completed on your own; show completed work to instructor to earn points if lab is completed within one week of the day absent.
- Make-ups
  ☑ Making-up of assignments and tests may be possible under reasonable, justifiable circumstances.
- Extra Credit
  ☑ There are NO extra-credit opportunities offered.
Plagiarism & Cheating

Any form of dishonesty is unacceptable. The direct copying of published information without paraphrasing the information or without acknowledging the source of information constitutes plagiarism. This unacceptable behavior applies to all projects and assignments that require researching and summarizing information published by others and presenting this information as part of a course assignment. Plagiarizing the work of someone else is dishonest, disrespectful, defeats the learning process, and undermines the integrity of being a scientist. Copying the work of another student during a test or a project assignment constitutes cheating. Neither plagiarism nor cheating will be tolerated and will lead to failing an assignment or exam and other serious consequences. Any work submitted should represent the work of the person(s) whose name(s) appear(s) on the submitted work. Suspected and/or admitted cases of plagiarism and cheating will be treated according to the official policy of San Diego State University on Dishonesty, and Cheating and Plagiarism as stated in the University Catalog.