SPRING 2010 SATURDAY PHYSICAL GEOLOGY 100 LAB
ESC 100L

This condensed laboratory course has an enhanced field component and meets from 8am-1:50pm on the dates listed below. There is an additional 6 hours of arranged time for completing a class project. Upon completion of this lab course, you will be able to identify minerals and rocks, use topographic and geologic maps, and better understand various geologic processes acting around us. Two instructors team teach this lab.

Instructors:

Rick Lozinsky (RL)	Marc Willis (MW)
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Lab Textbooks: Any Physical Geology textbook and Laboratory Supplement for Physical Geology 100 (located in FC Bookstore).

Required materials: 3-ring binder, handlens (or magnifying glass/card), compass, colored pencils, calculator, ruler with metric and American units, clipboard

Grading: Each lab will be worth a total of 40 points. Some labs may have quizzes. Exams will be based on lab exercises, textbook readings, and current events discussed in class. The class project is a more detailed study of a local area or expansion of one of the lab exercises. More details will be provided in lab discussions. The final exam will be based on lab exercises and textbook readings. There will be **no** makeups for missed labs.

8 Labs at 40 pts each	320 pts
Class Project	50
Final Exam I	70
TOTAL	440 pts

****** A = 90% B = 80% C = 65% D = 50% F = below 50% ******

To **better** succeed in this lab, you must make a **strong commitment** to do well. This includes: 1) attending lab; 2) being on time; 3) taking notes; 4) reading assigned chapters; 5) returning assignments on time; and 6) asking questions.

Please refer to the college catalog for policy on Academic Honesty. Attendance is very important. More than one unexcused absence will result in automatic drop of the course. You must officially drop the course, or you will receive a grade! **LAST DAY TO DROP: _____.**

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Before each lab, review the chapters listed in the lab manual and the exercises that pertain to that lab topic. Bring the textbook and lab supplement to each lab. A common theme with each lab is the plate tectonic theory so it should be reviewed often. Bring a lunch and water to each lab particularly those that will be in the field. Wear field clothing and shoes with good traction.

Lab	Day	Topics	Lab Chap.
A	1/22	**Lab (RL)** – Introduction; minerals and rocks. ***Meet in room 629***	2,4,5
B	1/29	**Lab (RL)** – Earth's interior and rock density; topographic and geologic maps. ***Meet in room 629***	1,6,8
C	2/5	**Brea Dam (MW)** – Surface water and groundwater. ***Meet at base of Brea Dam off Harbor Blvd @ 8am. Second half of lab in room 629.***	10,11
D	2/12	**San Gabriel Mtns (RL/MW)** – Igneous and metamorphic rocks; geologic hazards and mountain streams. ***Meet on campus at 7am or at 1st bridge on Mountain Ave. at 8am.***	
E	2/19	**Clark Park** – Sedimentary rocks; fossils; local geologic history.	4,7,13
F	2/26	**Virtual Field Trip lab** – Rainbow Basin and analyzing Earthquakes	4, 7,12
G	3/5	**Crystal Cove Beach (MW)** – Coastal processes; waves; currents and mass wasting. ***MW will provide directions. .***	any geology text
H	3/12	**Lab (MW)** – Sand grain analysis; stream gradients; topographic maps; Geologic time and age-dating. ***Meet in room 629***	4,6

*** * * * Open Final Exam Period in room 629 * * * ***

During week of 3/14-19

RL = Lozinsky; MW = Willis