

Physical Geology Laboratory Course Syllabus

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Office Hours: Office hours are held in my office S105 or lab S213
Mon: 8:00 – 9:15; 12:05 – 12:35
Wed 8:00 – 9:15; 4:00 – 6:00

Lab Times: 2:30 to 3:35

Student Learning Outcomes:

1. Utilize technology and other geologic tools such as topographic and geologic maps to make measurements and observations for analysis and interpretation.
2. Apply the scientific method to analyze geologic problems about the Earth, including identifying and evaluating minerals, igneous rocks, sedimentary rocks and metamorphic rocks.
3. Describe complex course concepts, principles, and interactions of Earth's systems in writing and diagrams.

LABS:

Lab work will be done in pairs or individually. In some cases each individual will turn in his/her own work, and in some cases the pair will turn in one lab for a shared grade. Lab exercises are due at the end of the lab period and may not be turned in late unless specifically noted. In order to give yourself enough time to complete the lab, you must do the assigned reading and any online homework and come to the lab prepared. If you miss 3 labs, you may be dropped from the class.

PRELAB QUIZ:

There will be a reading or video to watch and a related quiz for you to complete before the lab.

LATE POLICY:

DO NOT COME TO LAB LATE! If tardiness becomes a problem, I will lower each late lab grade by 1 point for every minute he or she is late, according to the clock in the lab room. I may also require any student who arrives late to work alone. PLEASE BE ON TIME!

REPLACEMENT LAB ACTIVITY:

If you miss a lab, or do poorly on a lab, you may replace one lab with the grade you earn on a replacement lab activity. Please see me if you need to replace a lab. I will not accept any replacement activities after the last lab begins. Note: The MINERAL AND ROCK EXAM and POSTER SESSION are required and may not be replaced with a replacement lab.

LAB FIELD TRIPS:

Some of the labs are required field trips. The lab will begin when I arrive at the designated location (we will have ½ hour driving time after the start of the scheduled lab time) and will end when you hand in your assignment. **You are responsible for finding your own transportation to and from these locations.** If it is impossible for you to find transportation on lab day, please see me ahead of time and we will discuss alternative options such as the replacement activity.

Course Description: Students will study minerals, rocks, and sediments and the processes that form them. These and other geologic processes will be related to plate tectonics, the rock cycle and the water cycle. A major focus is on using the scientific method to study these geologic processes and concepts. Projects will include using technology to conduct experiments that model geologic processes, interpreting maps and other images, and studying geologic processes in the field. Fieldtrip(s) will be required. GEOL 010 taken with GEOL 010L meets the lab science requirement for graduation/transfer.

GRADING SCALE: 90-100%: A 80-89%:B 70-79%:C 60-69%:D below 60%: F

LAB SCHEDULE:

Please note this is a tentative schedule and may be revised.

Week	Date	Lab	Lab Pts	My Grades:	
1	Sept 5	Process of Science experiments	20		
2	Sept 12	Glacier experiment (online survey / paper GLE)	20		
3	Sept 19	Mineral ID	20		
4	Sept 26	Earthquake experiment	20		
5	Oct 3	Rock ID	20		
6	Oct 10	MINERAL AND ROCK EXAM	50		
7	Oct 17	Field Trip: Downtown	20		
8	Oct 24	Intro to GPS	20		
9	Oct 31	Earthquakes and GPS	20		
10	Nov 7	Geohazard Assessment (ABAG data)	20		
11	Nov 14	Field Trip: Alum Rock Park	20		
12	Nov 21	Glaciers and GPS	20		
13	Nov 28	Groundwater and GPS (assessment due Dec 5)	20		
14	Dec 5	Groundwater Porosity experiment	20		
15	Dec 12	Groundwater pollution job (survey and GLE)	20		
16	Dec 19	POSTER SESSION (ABAG data)	50		
		Quiz points	20		
		Total	400		

To calculate your grade, add up the points you have and divide it by the points possible.

OTHER INFO:

STUDENT ACCESSIBILITY SERVICES: The Americans with Disabilities Act (ADA) is a civil rights statute that prohibits discrimination against people with disabilities. The Student Accessibility Services Program at San Jose City College is designed to allow students with disabilities to fully access and benefit from the general offerings and services of San Jose City College. The SAS office is located in the Student Center, room SC106. Contact Information is: Phone: 408-288-3746 TTY: 408-294-3447 V-Phone: 408-565-8640 Website: SAS Website (<http://www.sjcc.edu/current-students/support-programs/sas> or see Chapter 5 of the SJCC catalog)

o District Policy on Student Conduct:: SJCC is committed to providing a safe positive learning environment where students can pursue their educational goals. The Standards of Student Conduct can be found in Chapter 5 page 41 of the College Catalog available at <http://www.sjcc.edu/academics/college-catalog>

o Discrimination and Sexual Harassment policy:: SJCC is committed to maintaining an environment free of sexual harassment or discrimination based on race, religious creed, color, national origin, ancestry, disability, medical condition, marital status, political beliefs, organizational affiliation, sexual orientation, gender or age. Information on this can be found in chapter 5 page 40 of the College Catalog available at <http://www.sjcc.edu/academics/college-catalog>.