

EART 20: Environmental Geology Lab

Your Humble TA: Dan Killam, dekillam@ucsc.edu

Date/Time: Wednesday 5-8 pm EMS D250, Thursday 8:30-11:30 am EMS D258

Office Hours: Monday 1:30-3:30 pm EMS A160 (or A170 next door if we need more room). I will be able to answer your questions much more effectively in office hours than I can via email. Drop by and say hi.

Grading:

Lab Reports: 70% of grade

There are ten labs, nine of which contribute evenly to your final grade. Your worst lab score (or a lab you miss) will be discarded. **Each lab report is due at the beginning of the next lab.** A late lab will automatically receive a 50% penalty plus 10% of penalty for each additional week that the lab is late.

Quizzes: 20% of grade

There will be five quizzes randomly interspersed throughout the quarter which add up to 20% of your grade. This is to ensure that you do the assigned reading ahead of time. While the quizzes won't be too hard, there is no make-up if you miss them.

Participation: 10% of grade

It's important that we all show enthusiasm and initiative in lab. Students who show enthusiasm and initiative in lab and office hours will be rewarded, while those who put in the bare minimum of effort or worse will not.

What to expect at a typical lab:

I'll give a short lecture on the major topics and issues to watch out for regarding the lab of the day. Then it's up to you guys to do some science. Some labs will follow the lab manual closely, but for others I will combine questions from multiple sections that are thematically similar or even add on new, more creative questions. Most labs will be set up as a series of stations for you to answer questions about. Most of the work will be done during class, but some questions can be completed at home, which I will point out ahead of time.

Some ground rules:

- **Come to lab prepared.** Aside from making sure you do well on the lab quizzes, doing the assigned reading ahead of time will allow you to finish lab faster and free you to focus on learning rather than asking me questions that are easily seen in the lab instructions. We'll all have a better time.
- **Come to lab on time.** People more than 10 minutes late to class will be graded down on the day's lab at my discretion (unless you've contacted me earlier with a valid reason).
- **All work must be your own.** You can (and should) work as groups, but any answers too similar in wording to another person's will be treated as plagiarism and referred to the professor.

Upcoming topics:

1. Maps (Exercise 2)
2. Rocks and Minerals (Exercise 1)
3. Geologic Hazards and Earthquakes (Section II. Introduction to Geologic Hazards and Exercise 6)

4. Volcanoes (Exercise 4)
5. Landslides and Avalanches (Exercise 8)
6. Flooding (Exercise 10)
7. Coastal Hazards (Exercise 11)
8. Groundwater Hydrology and Pollution (Exercises 12 and 13)
9. Groundwater Overdraft: Subsidence and Saltwater Intrusion (Exercises 9 and 16)
10. Regional Planning and Climate Change (Exercises 17 and 18)