

Term: Spring 2017
Title: GEOL R101L – Physical Geology Lab
CRN: 31217
Instructor: Aaron Ferguson
Email: a Ferguson@vcccd.edu

Pre-requisites: GEOL R101 or concurrent.
Co-requisites: None
Transfer Credit: CSU; UC. C-ID GEOL 100L
Bldg/Room: LS – 4 Letters and Science
Date and Time: Monday’s 1:00pm – 3:50pm

Lab Textbook:

- 1) **Laboratory Manual in Physical Geology**, Richard M. Busch 10th Ed.
 If you buy a used textbook make sure it is not missing the Lab Analysis Pages and the Cardboard Block Models
- 2) **Laboratory Manual Supplement**, Available for PDF download at www.mraaronferguson.com
 You will need to print out and bring the appropriate Lab to class each session.

These policies and schedules are subject to change if unforeseen circumstances arise.

Objective:

The purpose of this course is to survey the world and the processes that shape our planet Earth. The course offers an overview of plate tectonics; identification of rocks, minerals, and fossils; an understanding of geologic and topographic maps, aerial photograph and satellite image assessment; an understanding of the Brunton compass; volcanoes; landslides; earthquakes; groundwater and soil contamination, etc. Physical Geology Laboratory is for those students who wish to complete a general education physical science laboratory course to transfer to a university and possibly explore careers in the Geological fields.

Grades:

10 – PreLabs (6%)	30pts
14 – Labs (42%)	210pts
10 Quizzes (20%)	100pts
Midterm (12%)	60pts
Final Exam (20%)	100pts
Total	500pts

A	100% - 90%
B	89% - 80%
C	79% - 70%
D	69% - 60%
F	59% - Lower

PreLabs:

There will be a total of 10-PreLabs

- Each PreLab will be worth 3pts
- PreLabs are due at the beginning of class
- Late PreLabs will not be accepted

Labs:

There will be a total of 14 labs

- Each quiz will be worth 15pts
- You may work in groups of 2-3
- Your answers must be your own

Quizzes:

There will be a total of 13-Quizzes

- Each quiz will be worth 10pts
- Quizzes are taken at the beginning of class
- Top 10 scores count
- There will be no make-up quizzes

Exams:

There will be a total of 2 Exams

- The Midterm will be worth 60pts
- The Final Exam will be worth 100pts
- Both Exams are **comprehensive**
- If Absent, special arrangements must be made the week before the Exam

Academic Honesty:

Students or groups who copy, or allow others to copy their labs, prelabs, quizzes, or exams, will **ALL** receive a zero on the assignment. Splitting the lab work among your group members and then sharing the answers by copying is just that: “copying” and violates the Oxnard College Policy on Academic Honesty.

You are expected to work diligently to answer the assigned questions and are encouraged to check with another group or the instructor to be sure your answers are correct.

Extra Credit Field Trips:

The Field Trips are used in place of make-up quizzes. There will be 2-optional field trips that can be used to replace your lowest quiz scores. Each Field Trip will be worth 10pts and will be ideally scheduled on a weekend. The date and time of these Field Trips will be announced in class. Final decision will be up to the professor whether field trips will be allowed during the semester. These extra credit field trips are weather dependent and a privilege.

Attendance and Participation:

Your attendance is vital to your success in this class and is required. You will receive credit for attending and working on the lab exercise in class. Leaving class early counts as an absence.

If you miss a lab you will need to coordinate with me to submit your work and obtain a make-up lab assignment. If you miss 5 Lab days, you will be dropped from the course or receive an F if the drop deadline has passed.

Time:

You shouldn't need to spend more than ½ hour a week outside of class, except to study for the exams. That is why this course is only 1 unit.

Tutorial Lab:

Tutoring is available above the library. Further information will be distributed as it is available.

EAC Students:

If you are enrolled through EAC and you need special accommodations for test taking, please let me know at least one week before each test so we can make the necessary accommodations.

How to succeed in this class:

1. Attend class regularly and complete the assignments during class.
2. Turn in Labs on time.
3. Do the Prelabs and Read the introductory material for each Lab before class.
4. Ask for help in class if you need it, but don't expect every lab exercise to have an obvious answer or even a single correct answer. Take some time and THINK.
5. During lab, THINK about what you should be learning rather than how fast you can get out of class.
6. Get to class on time.

Keep all your graded papers, quizzes and exams. They are a legal record of your coursework.

Physical Geology Lab: Keep track of your grades

Prelabs

	Minerals	Igneous	Sed	Meta	Fossils	Plate Tect	EQ	Topo	Geol Struct	Geol Maps	Coastal	Total to date
Your score												
Total possible	3	3	3	3	3	3	3	3	3	3	3	30

Top 10 Prelab scores count towards grade.

Labs:

	Lab Geol Time	Lab Mineral	Lab Igneou	Lab Sediment	Lab Meta	Lab Fossils	Lab Plate T Fossils	Lab Plate Tect	Lab EarthQ	Lab Compas	Lab Topo	Lab Geol Struct	Geol Maps	Lab Coast	Total to date
Your score															
Total possible	15	15	15	15	15	15	15	15	15	15	15	15	15	15	210

Quizzes:

	Lab Geol Time	Lab Mineral	Lab Igneou	Lab Sediment	Lab Meta	Lab Reading	Lab Reading	Lab Plate Tect	Lab EarthQ	Lab Reading	Lab Topo	Lab Geol Struct	Geol Maps	Total to date
Your score														
Total possible	10	10	10	10	10	10	10	10	10	10	10	10	10	100

Top 10 Quiz scores count towards grade.

Exams:

	Midterm	Final Exam	Total to date
Your score			
Total possible	60	100	160

To Calculate your GRADE to date:

Add each Total (Prelabs+Labs+Quizzes+Exams)

Divide by Total Possible to Date =

Multiply by 100 =

My Total to date: _____

Total Possible to date: _____

MY %: _____

Schedule:

Date:	Coursework:	Homework
1/9/17	- Class Expectations - Measurement and Geologic Time Scale	- READ – Lab 3 - PreLab – Minerals
1/16/17	MLK Jr. Day – No Class	
1/23/17	- Quiz: Geologic Time Scale - Minerals	- READ – Lab 5 - PreLab – Igneous
1/30/17	- Quiz: Minerals - Igneous Rocks	- READ – Lab 6 - PreLab – Sedimentary
2/6/17	- Quiz: Igneous - Sedimentary Rocks	- READ – Lab 7 - PreLab – Metamorphic
2/13/17	- Quiz: Sedimentary - Metamorphic Rocks	- READ – Lab 8 - PreLab – Fossils
2/20/17 - Last day to ADD or DROP w/ a refund		
2/20/17	Presidents' Day – No Class	
2/27/17	- Quiz: Metamorphic - Fossil Identification	Prepare for Midterm
2/29/17 - Last day to DROP w/o a "W"		
3/6/17	MIDTERM	- READ – Lab 2 - NO PRELAB
3/13/17	Spring Break – No Class	
3/20/17	- Quiz: Reading - Plate Tectonics: Mystery of Fossils	- READ – Lab 2 - PreLab – Plate Tectonics
3/27/17	- Quiz: Reading - Plate Tectonics	- READ – Lab 16 - PreLab - Earthquakes
4/3/17	- Quiz: Plate Tectonics - Earthquakes	- READ – Lab 9 - NO PRELAB
4/10/17	- Quiz: Earthquakes - Brunton Compass	- READ – Lab 9 - PreLab – Topo Maps
4/17/17	- Quiz: Reading - Topographic Maps	- READ – Lab 10 - PreLab – Geologic Structures
4/21/17 - Last day to DROP w/ a "W"		
4/24/17	- Quiz: Topographic Maps - Geologic Structures	- READ – Lab 10 - PreLab – Geologic Maps
5/1/17	- Quiz: Geologic Structures - Geologic Maps	- READ – Lab 15 - PreLab – Coastal Processes
5/8/17	- Quiz: Geologic Maps - Coastlines and Coastal Processes	Prepare for Final Exam
5/15/17	Final Exam	Thank you!