

PHYSICAL GEOLOGY LAB SYLLABUS
GLY 1010L
Hybrid Physical Geology Lab
Fall – 2011

Instructor's Name: Marianne O'Neal Caldwell

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Office Hours (Day, Time, Location):

Mondays at Dale Mabry Campus in DSCS 128, 8- 9:30am and 12:15pm-12:45pm

Tuesdays online 8am-11am

Wednesdays at Dale Mabry Campus, DSCS 128; 8am-11am

Thursdays online 8am-10am

Also available by appointment

Class Schedule: Hybrid; Both online lab assignments and in-class meetings on selected Mondays 1-2:40pm. Please make sure you note which weeks require attendance in the classroom.

Course Description:

GLY 1010L is the laboratory class to accompany GLY 1010 (Physical Geology).

Course Objectives:

1. Demonstrate the use of scientific measurements and the metric system of units
2. Diagram the Geologic Time Scale and reproduce its chronological sequence with approximate dates for the Eras, Periods, and Epochs.
3. Identify and describe the readily observable properties of minerals and use these properties to identify common minerals with the aid of a flowchart.
4. Identify by Name, common igneous, sedimentary, and metamorphic rocks and their properties using readily observable characteristics.
5. Use a USGS Topographic map to determine elevations, distances, and positional information (using the Government Land Survey System also known as Township and Range) of specified locations.
6. Produce topographic maps and profiles by drawing the contour lines on sheets

containing elevation data only.

7. Identify, on a map of the world showing the outlines of the plates, the name of each of the Earth's major tectonic plates and their direction of movement. Identify the types of plate boundaries, and describe the types of diastrophic activity associated with each type of boundary.

8. Interpret and identify the major types of geologic structures (including faults) by completing the subsurface portions of block diagrams given only the outcrop patterns.

9. Identify and describe erosional and depositional fluvial landforms on a map or photographic image.

10. Identify and describe glacial and Aeolian landforms on a map or photographic image.

11. Describe and diagram Florida's stratigraphy and lithology. Relate this explanation to Florida's Karst topography and hydrology.

12. Explain the major types of coastal landforms found along Florida's coast, and discuss how eustatic changes in the Pleistocene (and at present) have altered the coastline.

13. List and describe the interactions between humans and the physical environment that threaten to have deleterious consequences, including, but not limited to: shoreline modification, groundwater withdrawal and contamination, surface water diversion and pollution, and mining.

Required Text Book:

Online Geology Laboratory Manual by M. Caldwell; available at Dale Mabry Bookstore; make sure you purchase the online manual

If you do not use the correct form or information sheet to answer the lab, 10 points will be deducted from that week's grade.

Grading System:

Final grades will be computed as follows:

60%	Lab Reports
20%	Lab Test I
20%	Lab Test II

The grading scale is as follows:

A	100-90%
B	89-80%
C	79-70%
D	69-60%
F	less than 60%

Academic Dishonesty Policy:

Students enrolled in lab courses are expected to exhibit academic honesty. Copying of work is not allowed. Use of outside resources during tests is not permitted.

All writing assignments must be written in your own words.

Attendance Policy:

Because of the nature of a lab course, students should attend all in-class meetings and complete all online labs. There will be no make-up labs and each student is expected to attend all class meetings and complete all online labs. Your lowest grade on a lab exercise may be replaced with an optional lab at the end of the course. You should arrive within 10 minutes of the class starting time to participate in on-campus labs. Arrival after that time will result in a deduction of 10 points per every 10-minute interval. Make sure you read the schedule carefully and are aware of which weeks lab meets in the classroom and which weeks the labs are completed online. Online labs will be due at 11:30pm on the due date. After that time you will not be able to submit the online work and the lab will be considered as missed, including those submitted at 11:31pm.

Instructional Methods:

In addition to the lab reports two tests will be given during the semester. Each test is “practical” in nature, meaning that the skills utilized in lab will be applied during the test. The format of the test is short answer and fill-in-the-blank.

Online Classroom:

The classroom website is available at: online@hccfl.edu . You will use the classroom for email communications and uploading assignments. You must know your student ID number to login the first time. If you have problems, please contact HCC Live from the HCC home page.

Request for Accommodations:

If, to participate in this course, you require an accommodation due to a physical or learning impairment, you must contact the Office of Services to Students with Disabilities. The office is located in the Student Services Building, Room 208. You may also reach the office by telephone at (813) 253-7031 {voice line}; (813) 253-7035 {TTD}.

Assignments:

Prior to class, students are expected to have read the lab exercise for the day. Students may work in groups for each lab exercise but not for the test. A calculator and pencil should be brought to each lab class. Students are required to complete in-class lab exercises in pencil using the correct lab form. The online assignments must be correctly submitted online.

Tentative Class Schedule

Date	Assignment
8/22	Lab Introduction; CLASSROOM
8/29	Outdoor Classroom; ONLINE
9/5	Holiday
9/12	Minerals; CLASSROOM

9/19	Rocks; CLASSROOM
9/26	Virtual Earthquakes; ONLINE
10/3	Virtual Field Trip to Grand Canyon; ONLINE
10/10	Topographic Map; ONLINE
10/17	Lab Test I; CLASSROOM
10/24	Geologic Maps; ONLINE
10/31	Google Earth; ONLINE
11/7	Surface Water; ONLINE
11/14	Virtual Field Trip to Florida's Coastlines; ONLINE
11/21	Hurricane Tracking; ONLINE
11/28	Lab Test II; CLASSROOM
12/5	Virtual River Discharge; ONLINE (Optional Lab; may replace lowest lab grade)