



**This course is not taught completely online. Please note that you must complete five labs using materials at the Dale Mabry Campus library in Tampa to participate in this course.**

**PHYSICAL GEOLOGY LAB ONLINE SYLLABUS  
GLY 1010L  
Physical Geology Lab  
Fall 2010**

**Instructor's Name:** Marianne O'Neal Caldwell

**Telephone Number:** 253-7251

**Email:** Please email me through [online@hcc](mailto:online@hcc) (formerly WebCT) using our classroom email. I will normally respond within two business days.

**Alternative Email Address:** [mcaldwell@hawkmail.hccfl.edu](mailto:mcaldwell@hawkmail.hccfl.edu)

**Office Hours (Day, Time, Location):**

Mondays at Dale Mabry Campus in DSCS 128, 7:45-8am; 9:15am-11am; 12:15pm-1pm

Tuesdays online 7:30am-10am

Wednesdays at Dale Mabry Campus, DSCS 128; 7:30am-8am; 9:15am-11am

Thursdays online 10am-12:30pm

Also available by appointment

**Class Schedule:** Online

**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:**

Geology Online Laboratory Manual by M. Caldwell; available at Dale Mabry Bookstore; make sure you buy the online version. You must have the correct lab manual to complete the lab assignments.

**Grading System:**

Final grades will be computed as follows:

70%	Lab Exercises
30%	Lab Test

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 online courses are expected to exhibit academic honesty. Copying or sharing 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:**

Students are required to log in weekly to complete assignments check announcements, and and check email. Any late work will be assessed a penalty. If you miss the deadline for a lab, there will be 10 points deducted. For every seven days there will be an additional 10 points deducted. For example, if you are 3 weeks late with a lab, there will be 30 points deducted. Labs will be closed after three weeks with no further submissions allowed.

Several labs require that you upload a document with a certificate onto the classroom website. In order to get credit for the lab, you must post the certificate in the correct format. The only acceptable formats are pdf or Word or as a picture file (bmp or jpg). If you post a document in the wrong format, it will not count for credit and will be late when posted. No certificates or other assignments will be accepted via email. If they are submitted via email, they will not count for credit and be counted as late when posted. If you are unclear about how to correctly post the assignment, please contact me for instructions.

**Instructional Methods:**

Lab Exercises

Lab Practical Exam

Students will complete the lab exercises using the lab manual and post answers to the labs using [online@hcc](mailto:online@hcc). Students will work on a variety of topics in lab. Some labs will access online websites for virtual field trips and answer questions from the lab manual to be posted in the classroom. The rocks, minerals, and maps labs will use materials available for use in the Dale Mabry campus library during normal library operation hours. All lab assignments should be completed by the designated due date. The lab exam will be practical in nature, testing the student's knowledge of both subject material and lab techniques. It will consist of short answer/short essay questions to test principles from the lab exercises. You may use all available resources for the lab exam. A review will be posted at least one week prior to the lab exam at the "Lab Assignments and Lab Test Link".

**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}.

**Privacy Statement:**

Students using online formats for study at HCC do so in a respectful, protected environment. However, this learning environment may at times be viewed by faculty (both current and those learning to become online facilitators), Distance Learning staff, and other experts, who are working with us to maintain the highest quality online courses. Please understand that this is not a secure, private environment.

<b>Assignments:</b>	<b>Due Date:</b>	<b>Category (see 3 below)</b>
Fossils Virtual Field Trip	1/26	b
Virtual Earthquakes	2/2	c
Mineral Identification*	2/9	a
Igneous Rock Identification*	2/16	a
Metamorphic Rock Identification*	2/23	a
Sedimentary Rock Identification*	3/2	a
Virtual Radiocarbon Dating	3/9	c
Virtual Isochron Dating	3/16	c
Topographic Maps*	3/23	a
Mid-term Break (no lab due)	3/30	
Virtual River Discharge	4/6	c
Virtual River Flooding	4/13	c
Hurricane Tracking	4/20	b
Final Lab Exam	4/27	

Please note that the assignments which have \* by the name must be completed using materials found in the Dale Mabry library.

### **How do I get started?**

- 1) Watch the narrated online orientation. This will give you a tour of the website and answer many of the questions you may have.
- 2) Purchase the lab manual from the Dale Mabry bookstore.
- 3) Look around the website at the labs. There are three different categories of labs (a,b,c).
  - a. One group of labs is completed by working through exercises with materials at the Dale Mabry library. These labs are starred above. The questions are listed in the lab manual. You will submit your answers to multiple choice questions through the website.
  - b. The second group of labs is done completely using materials in the lab manual. This includes the Fossil Virtual Field Trip and the Hurricane

Tracking labs. You will submit your answers to multiple choice questions through the website.

- c. The third group of labs requires that you visit a website detailed in the lab book. You will work through a series of exercises and receive a certificate. You will be required to save the certificate in the correct format and upload the certification onto the website in the “Posting Area for Virtual Labs”. Please note that the certificate must be uploaded in the correct format for credit.
- 4) Set aside a block of time each week to work on the labs. The students that are most successful turn in assignments on time or before the due date.
- 5) Do not wait until the night the lab is due to begin working on it. The labs are challenging college-level exercises that require time to complete.