

# HILLSBOROUGH

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Community College 

**PHYSICAL GEOLOGY LAB ONLINE SYLLABUS**  
**GLY 1010L**  
**Physical Geology Lab**  
**Fall - 2007**

**Instructor's Name:** Marianne Caldwell

**Telephone Number:** 253-7251

**Email Address:** Use my WebCT email address

**Communications Policy:**

I prefer that you email me within your WebCT course. If you are having problems accessing WebCT please email me at the Internet email address listed above. I will respond to all emails and voices mails within two business days unless otherwise notified.

**Office Hours (Day, Time, Location):** Mon. & Wed. 7:45-9:30am & 12:15-1pm in DSCS 128; 10:45-11am in DSCS 114; Online Wed. 9-10pm  
Tues. & Thurs. 7:45-8am in DSCS 128; Online 9-10pm  
Tues. 10:45-11am in DSCS 133  
Thurs. 10:45am-noon in DSCS 128

**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.

**Text Book:**

**Required:**

Geology Laboratory Manual and Kit for Distance Learning, by Ruhle, 1st edition

**Grading System:**

100-90% A

89-80% B

79-70% C

69-60% D

less than 60% F

**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 and check email. Because of the nature of the online course, students are expected to keep up with the readings, participate in the online discussions, and take the tests by the designated completion date. Any late work will be assessed a penalty. There will be an orientation

that students are strongly encouraged to participate which will outline policies and procedures.

**Instructional Methods:**

Lab Exercises

Lab Practical Exam

Students will complete the lab exercises using the lab manual and lab materials in the kit and post answers to the labs using WebCT. Students will access online websites for virtual field trips and answer questions from the lab manual to be posted in WebCT. Students will view video field trips and post answers in WebCT to questions from the lab manual. All lab assignments should be completed by the designated due date. Any late assignments will be reduced in grade by 10 points per week. 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 questions to test principles from the lab exercises, virtual field trips, and video field trips.

**Help with WebCT or technical issues:**

If you require assistance with the use of WebCT, the Learning Management System used at HCC, please contact the HCC Help Desk at 813.253.7000 extension 4357 (Help). Include your full name, the course you are enrolled in and a detailed description of the problem you encountered. If you have questions about the course assignments or other questions regarding the course content you need to contact your instructor.

**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.

**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}.

**Date to be completed Assignment:**

8/29	Virtual Field Trip: Gems and Minerals
9/5	Minerals
9/12	Igneous Rocks
9/19	Sedimentary Rocks
9/26	Metamorphic Rocks
10/3	Lunar and Planetary Geology
10/10	Earthquakes

10/17	Topographic Maps
10/24	Virtual Field Trip; Fossils
10/31	Surface Water
11/7	Waste Disposal and Pollution
11/14	Alternative Energy Systems
11/21	Groundwater
11/28	Subsurface Geology and Petroleum Fuels
12/4	Lab Test Due

**Course Grading:**

Grades will be calculated as:

Lab Exercises 70%

Final Exam 30%