

PHYSICAL GEOLOGY ONLINE SYLLABUS
GLY 1010
Physical Geology Online
Fall 2011

Instructor's Name: Marianne O'Neal Caldwell

Telephone Number: (813) 253-7251

Email Address: Use classroom email address.

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Communications Policy:

I prefer that you email me within the online classroom. I will respond to all emails within two business days unless otherwise notified.

Office Hours (Day, Time, Location):

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

Tuesdays online 8-11am

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

Thursdays online 8-10am

Also available by appointment

Class Schedule: Online

Course Description:

This course covers basic geology and concepts and principles. Topics include origin and structure of the earth, processes involved in shaping the earth's crust, the nature and classification of earth materials, and the dynamic interactions of the lithosphere with the hydrosphere and the atmosphere that produce characteristic landforms.

Co-requisite: GLY 1010L

Course Objectives:

1. Describe the scientific method and discriminate between scientific and nonscientific information.
2. State the age of the Earth as determined by scientific means and divide geologic time into the established Eras, Periods, and Epochs of the Geologic Time Scale.
3. Describe the structure of an atom and discuss how atoms bond, relating this to the structure and properties of minerals.
4. Define what a mineral is and describe the relationship of minerals to rocks.
5. Describe the Rock Cycle, listing and relating its products and processes.

6. Describe how igneous rocks may be characterized by their texture, composition, and provenance
7. Describe the origin of magma and the nature of intrusive and extrusive igneous processes and landforms.
8. Describe the Earth's differentiated structure and list the names and properties of the Earth's internal layers.
9. Describe and discuss the basic tenants of the theory of Plate Tectonics, including the origin of the theory, the types of plates, and the nature and consequences of their interactions.
10. Relate the theory of Plate Tectonics to the locations and occurrence of geologic hazards including earthquakes, tsunamis, and volcanic activity.
11. Describe the Hydrologic Cycle, both in general terms, and how it specifically relates to geologic processes.
12. Describe the formation, properties and classification of sedimentary rocks.
13. Describe the processes involved in metamorphism and discuss the textural and mineralogical changes that occur in metamorphic rocks.
14. List and describe the major types of crustal deformation and associated geologic structures.
15. Define and describe the processes of weathering, erosion, and mass movement (mass wasting).
16. Describe fluvial processes and landforms.
17. Describe the processes effecting shorelines and the resultant shoreline features.
18. Describe the distribution and movement of water in the earth's crust, relating this to Karst topography and other hydrogeological features such as springs, hot springs and geysers.
19. Describe the origin and nature of glacial landforms and the circumstances that have been hypothesized to explain the Pleistocene glaciations. Describe the role of wind as a geomorphic agent, listing the major types of aeolian erosional and depositional features, and the location of their occurrence.

Required Text Books:

Understanding Earth, 6th edition, by Grotzinger and Jordan
 GLY 1010 Notes and Study Guide, by M. Caldwell
 Available at the Dale Mabry campus bookstore

Grading System:

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

Schedule of Assignments:

Assignment	Date to be Completed	Chapters Covered
Pre-class Evaluation	8/31	

Student Holiday	9/5	
Test I Worksheets	9/7	
Test I Review	9/9	
Discussion Board I	9/12	
Test I	9/16-9/17	1,2,3,4
Powerpoint Topic	9/21	
Virtual Field Trip I	9/28	
Test II Worksheets	10/5	
Test II Review	10/7	
Discussion Board II	10/10	
Test II	10/14-10/15	5,6,7,8,12
Virtual Field Trip II	10/19	
Test III Worksheets	10/26	
Test III Review	10/28	
Discussion Board III	10/31	
Test III	11/4-11/5	13,14,16,17
HCC Holiday	11/11	
Powerpoint Presentation	11/16	
Test IV Worksheets	11/23	
Thanksgiving Break	11/24-27	
Test IV Review	11/28	
Discussion Board IV	11/28	
Test IV	12/2-12/3	18,20,21,23

Final Exam

12/9-12/10

Cumulative

Any late assignments will be reduced in grade by 25 points per week. If an assignment is worth less than 25 points, late submissions will not be accepted. No work will be accepted more than one week late. Makeup tests may be taken up to five days late with a 50 point penalty. There will be no make-ups for the final exam.

Course Grading:

Total of 1,000 points:

Four Tests (100 points each) 400 points

Eight Discussion Board Questions (15 points each) 120 points

Pre-class Evaluation of Geology (50 points)

Powerpoint Presentation (120 points)

Sixteen Worksheets (5 points each) 80 points

Two Field Trip Reports (40 points each) 80 points

Final Exam (150 points)

Any extra credit points earned will be added to the 1000 point total.

Please allow one week for grading to be completed.

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 a minimum three times a week to complete assignments, participate in discussions, and check email. Students are required to respond to the discussion board no later than five days after the instructor's posting. 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 detailed above. Students are required to read all announcements posted by the instructor.

Instructional Methods:

Required:

Tests

Four Tests will be given, each worth 100 points. A cumulative final exam worth 150 points will be also administered. The tests and final exam will be a combination of multiple choice, short answer, and fill-in-the-blank questions. All tests and exams will be administered online. Please make sure you have a reliable internet connection prior to beginning the tests. If you do not have a reliable connection, please plan to take the tests at one of the HCC campuses. Preparation for the tests and final exam should include the following:

- 1) Reading and studying the textbook
- 2) Viewing Powerpoint presentations for each chapter
- 3) Complete online learning activities for each chapter including flashcards and quizzes.
- 4) Complete questions in instructor-written study guide for applicable chapters.

Discussion Boards:

Participation in an online discussion board of geologic topics is required. The Gordon Rule requirement for this course will be partially fulfilled by the discussion board questions. For the discussion boards, students will be given essay-type questions and asked to respond. The answers should be in paragraph form with correct sentence structure and grammar. Each student should write in his or her own writing style. Plagiarism of the works of others should not be done. Students are asked to post a response to both the instructor's postings and postings made by other students (a minimum of two postings). If you do not post at least the minimum number of postings (two), points will be deducted. In order to count as a posting, you should have a minimum of 50 words per posting. If your writing has spelling or grammar errors, points will be deducted. Students are required to respond to the discussion board no later than five days after the instructor's posting. If you do not respond within the first five days, points will be deducted. No postings will be accepted after the due date as the late penalty (25 points) is more than the value of the discussion board (15 points).

Worksheets:

Sixteen worksheets are posted under assignments, four per test. Students are required to complete the worksheets and either upload the completed worksheet as a Word file or the answers for the worksheet as a Word file. No submissions will be accepted after the due date as the late penalty (25 points) is more than the value of each of the worksheets (5 points). No submissions in a format other than Word will count for credit. The questions must be correctly uploaded to the website to count for credit. No work will be accepted via email.

Virtual Field Trips:

Two virtual field trips are assigned which may be viewed in the virtual classroom. These will open when we cover the corresponding chapters to the topic. Students are required to complete questions relating to the field trips. The links to the narrated field trips and questions can be found at: "Chapter Resources".

Powerpoint Presentation:

A Powerpoint Presentation on a geological feature will be required. The Powerpoint presentation consisting of 10-15 slides describing the geology of a specific geologic feature. Please see the supplementary attachment for specifics about the presentation and a list of topics. You should review the instructions and rubric carefully in order to complete the assignment correctly. Your topic choice will be due prior to the presentation date.

Late submissions: Any late assignment will result in a penalty of twenty five points. Submissions more than one week late will not be accepted. For example, if you are one day late with a field trip, the highest grade you can receive is 15 out of 40. Extra Credit and Assignments that have a 25 point value or less (Discussion Boards, Review

Questions, and Worksheets) will not be accepted late. Assignments and tests are due at 11:30pm on the due date. Those submitted afterwards, including 11:31pm, will be considered late. Makeup tests can be taken up to one week late with a 50 point penalty. There will be no make-ups for the final exam.

Optional Extra Credit:

Review Questions

There will be four sets of review questions (one for each test) available for extra credit due one week before each of the tests. If the answers are turned by the respective due dates, up to 3 additional points may be added to each test as extra credit (maximum of 12 points out of 1000). Late reports are not eligible for extra credit. Answers to sixty questions are required for extra credit. The questions must be correctly uploaded to the website to count for credit. No work will be accepted via email.

Review Quizzes

In addition to the review question for the Gordon Rule, students may earn extra credit points by completing the Online Review Quizzes. Any points earned will be added to the 1000 point total. These will be open throughout the time we are covering that set of material but will close the evening before each of the exams open. Therefore the review quizzes will close on Thursday evening before each of the tests and will not re-open. Please make note of the date each closes and plan your work accordingly.

Help with online@hcc or technical issues:

If you require assistance with the use of online@hcc, please go to the HCC home page and access the help site through HCCLive.

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}