

**GLY 210L- 102 EARTH MATERIALS LAB
FALL 2012—SYLLABUS & SCHEDULE**

Lab Manual: Earth Materials Lab, Bonnett and Sanderson

Meeting Time: Tuesdays, 1:00-2:50pm

Instructor

Dr. Bill Niemann (S171, 696-6721, niemann@marshall.edu)

Office Hours:

M: 9:00-11:00am, 2:00-4:00pm

T: 4:30pm-5:30pm,

W: 2:00-4:00pm

Other times: by chance or appointment

Course Description

1 credit hour, Co-requisite course: GLY 110 or 200. An introduction to laboratory and materials as applied to the identification, classification, recovery and uses of earth resources.

Course Objectives:

By the end of the semester, each student should be able to:

1. Identify many important minerals in hand specimen, particularly the common rock forming minerals.
2. Identify and properly classify key rocks based on an examination of hand specimens.
3. Perform measurements of physical properties related to rocks and minerals; evaluate and interpret resulting numerical data.
4. Read and correctly interpret topographic maps, properly locating important features, use coordinate systems and map scales, determine slopes and construct cross-sectional profiles.
5. Identify some key fossils and determine their importance in understanding the geologic history of an area.

Grading

Quizzes: 75% (3 @ 25% each)

Continuous assessment (weekly lab exercises): 25%

Final letter grades will be assigned as follows based on final average: A (90-100), B (80-89), C (70-79), D (60-69), F (<60). These grade boundaries may be adjusted downward depending on the grade distribution in the class. Any adjustments will have the effect of helping and not hurting students' grades.

A grade of zero will be assigned for a missed quiz or weekly exercise unless you have a University sanctioned excuse. The continuous assessment part of your grade will be based on attendance and quality and completeness of your weekly lab assignments.

Lab Attendance/ Participation/ Continuous assessment

Weekly exercises will not be assigned a letter or numerical grade. However, each week students are expected to be present and to complete the assigned work. For weekly exercises a grade of 100% will normally be awarded to students in attendance that apply their time toward the goals of the exercise and complete the assigned work. Students attending class for any given week but not meeting the above expectations will be assigned grades of 75% or 50% for that week, as deemed appropriate by the instructor. Students not in attendance (see policy below) will receive a zero for that week. On occasion the instructor may collect weekly exercises in order to verify that work is being completed and to offer helpful input.

Excused absences are those defined on pages 81-83 of the 2011/2012 Marshall undergraduate catalog. Arriving late or cutting portions of the lab will adversely affect performance and therefore your grade for lab.

Academic Integrity: Academic dishonesty as defined on pages 67-68 of the 2011/2012 Marshall undergraduate catalog will not be tolerated. Violations of the honor code may result in the assignment of an "F grade" for the class, and further disciplinary action as defined in the catalog.

Students with special needs:

Students with a particular learning disability should contact the instructor as soon as possible and the Disabled Student Services Office (113 Prichard Hall) or the H.E.L.P. office (Myers Hall), both on campus. Every effort will be made by this instructor to accommodate their needs.

**GLY 210L-102 EARTH MATERIALS LAB
FALL 2012--SCHEDULE**

Week / Day / Date	Topic	Activity
1 -- T Aug 28	Minerals	Exercise
2 -- T Sep 4	Minerals	Exercise
3 -- T Sep 11	Minerals	Exercise
4 -- T Sep 18	Minerals	Exercise
5 -- T Sep 25	Minerals	Quiz
6 -- T Oct 2	Mineral and Rock Density	Exercise
7 -- T Oct 9	Rocks	Exercise
8 -- T Oct 16	Rocks	Exercise
9 -- T Oct 23	Rocks	Exercise
10 -- T Oct 30	Rocks	Quiz
11 -- T Nov 6	Maps	Exercise
12 -- T Nov 13	Maps	Exercise
T Nov 20	Thanksgiving break	Exercise
13 -- T Nov 27	Fossils	No class
14 -- T Dec 4	Fossils	Exercise
15 -- T Dec 11	Maps and Fossils	Quiz