

**GLY 210L- 103 EARTH MATERIALS LAB  
FALL 2010—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](mailto:niemann@marshall.edu))

Office Hours:

W/F: 9:00-11:00am,

W: 3:00pm-5:00pm,

T/R: 11:00am-12:00pm

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 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 graded for credit. 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 124-126 of the 2009/2010 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 102/106 of the 2009/2010 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-103 EARTH MATERIALS LAB  
FALL 2010--SCHEDULE**

<b>Week / Day / Date</b>	<b>Topic</b>	<b>Activity</b>
1 -- T Aug 24	Intro / Maps	Exercise
2-- T Aug 31	Maps	Exercise
3 -- T Sep 7	Maps	Exercise
4 -- T Sep 14	Minerals	Exercise
5 -- T Sep 21	<b>Maps</b>	<b>Quiz</b>
6 -- T Sep 28	Minerals	Exercise
7 -- T Oct 5	Minerals	Exercise
8 -- T Oct 12	Mineral & Rock Density	Exercise
9 -- T Oct 19	Rocks	Exercise
10 -- T Oct 26	<b>Minerals</b>	<b>Quiz</b>
11 -- T Nov 2	Rocks	Exercise
12 -- T Nov 9	Rocks	Exercise
13 -- T Nov 16	Fossils	Exercise
T Nov 23	<b>Thanksgiving break</b>	<b>No class</b>
14 -- T Nov 30	Review	Exercise
15 -- T Dec 7	<b>Rocks and Fossils</b>	<b>Quiz</b>