

Earth Materials Lab - GLY 210L-203 - Syllabus
 Spring 2017 - 1 Credit - CRN: 3471

Lab Time: Wednesday 1-2:50pm - Science 167

Professor: Dr. Scharman

Office: Science 163

Phone: (304) 696-5434

Email: scharman@marshall.edu

Office Hours: M 12-1:30pm, T & R 11am-12:30pm, or by appointment

Please do not stop by in the hour before any scheduled class

Required

Lab Manual: *Earth Materials: A Laboratory Manual for Physical Geology and General Geology*, Bonn et al. (only available in university bookstore)

Materials: pencils (absolutely no pens), notebook; Recommended: non-cellphone calculator

Course Description

An introductory laboratory to earth materials as applied to the identification, classification, recovery, and uses of earth resources. During the duration of this course, each student should:

- Acquire hands-on experience with description and identification of minerals, rocks, and fossils, and measurement of mineral and rock properties.
- Develop the ability to read topographic maps, recognize landforms, use coordinate systems and map scales, determine slope and other landform properties, and construct basic topographic profiles.
- Develop an understanding of relationships between geologic processes and the earth materials produced.

<u>Learning Outcome</u>	<u>Practice of Learning Outcome</u>	<u>Assessment</u>
Mineral, Rock, Fossil ID & Property Measurements	<ul style="list-style-type: none"> • Mineral ID Lab • Rock ID Labs • Fossil ID Lab • Specific Gravity Lab • Pre-lab Quizzes 	<ul style="list-style-type: none"> • Mineral ID Exam • Rock ID Exams • Fossil ID Exams
Topographic Map Comprehension	<ul style="list-style-type: none"> • Topographic Maps Lab • Pre-lab Quizzes 	<ul style="list-style-type: none"> • Topographic Maps Exam
Geologic Processes Comprehension	<ul style="list-style-type: none"> • Mineral ID Lab • Rock ID Labs • Fossil ID Lab • Earthquake Lab 	<ul style="list-style-type: none"> • Earthquake Lab

Course Assessment

Lab Exams: 35%

Grading Scale:

Lab Assignments: 30%

A - 90-100%; B - 80-89%;

Pre-lab Quizzes: 15%

C - 70-79%; D - 60-69%

Attendance: 10%

F - 0-59%

Participation: 10%

Total: 100%

No curve will be applied, please do not inquire. You are expected to keep track of your own grade as the course progresses with the above grading scheme.

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Pre-lab Quizzes and Lab Assignments

You are expected to read each assigned chapter prior to when the topic is covered in the lab. With each week's reading assignments is a pre-lab quiz, designed to prepare you for basic concepts associated the week's lab. Pre-lab quizzes are completed through the course's Blackboard page, and will be available from the end of the previous week's lab period until 15 minutes prior to the start lab on the due date (i.e. 12:45pm).

Lab assignments are given weekly throughout the semester, and these will require some extra time beyond the regular class period. Assignments are due at start of lab on the due date. Late assignments will not be accepted.

Attendance and Participation

Attendance and participation will be recorded each lab period, except on exam days.

Attendance portion of the lab grade will be based on your weekly attendance in lab. Each absence will subtract from the attendance portion of your grade.

Participation is based on active involvement in the lab work. Texting, sleeping, other forms of inattentiveness (e.g. smart phone use), relying heavily on a partner to do the work, or forgetting your lab manual are examples of actions that will result in loss of credit for the weekly lab participation grade. Copying of others' work will also affect the lab participation and assignments grade. Additionally, this will be treated as academic dishonesty and handled accordingly.

If you miss a lab, you have until the due date to use the classroom, when available, to complete the work. Make-up quizzes and time extensions for assignments will only be given for university excused absences. Absences that are classified as University Excused Absences are the following: serious medical reasons, legal reasons, military obligations, or university activities excused by the academic deans.

If you miss *less than 3 consecutive hours* of the course, you must speak with me about any make-up work. Note, in this case, it is up to the Professor to determine if your absence is considered an official university excused absence. Professor must receive proper notification/ documentation of an university excused absence. Please speak to me sooner rather than later about such absences.

If you miss *3 consecutive hours or more* of class, you must speak with the Dean of Student Affairs Office. In such a case, notice of an excused absence must be received by the Professor from the Dean of Student Affairs office prior to completing the make up work. All excused assignments and make-up quizzes must be completed prior to taking Lab Exam #4.

Note about Personal Conduct

Everyone in the course is expected to act in a professional and courteous manner. Any disruptive or offensive behavior - especially that directed at anyone else in the class - will not be tolerated. Any violation will be met with a requirement to drop the course and forfeit any associated grades. All cell phones must be turned off, put away, and remain away, for the duration of each class period. It is extremely unprofessional, as well as a waste of the Professor's and fellow student's time, if you are looking at a cell phone while a conversation/lecture/lab is in progress. Having a cell phone out during an exam is considered cheating, and participation points will be lost if you have a phone out during regular lab time. Finally, Professor Scharman will only respond to emails that are written with at least a basic level of professionalism and courtesy.

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By your continued enrollment in this course, you agree with the policies in this syllabus and to the following University Policies: Academic Dishonesty; Excused Absence Policy for Undergraduates; Computing Services Acceptable Use; Inclement Weather; Dead Week; Students with Disabilities; Academic Forgiveness; Academic Probation and Suspension; Academic Rights and Responsibilities of Students; Affirmative Action; Sexual Harassment

The full text of each policy is available at: <http://muwww-new.marshall.edu/academic-affairs/policies>

Lab Topic Schedule

Day	Topic	Reading
Jan. 12	Topographic Maps	Chapter 1, Exercise 1
Jan. 18	Topographic Maps	Chapter 1, Exercise 2
Jan. 26	Topographic Maps	Chapter 1, Exercise 3
Feb. 2	Lab Exam 1 - Topographic Maps	
Feb. 9	Minerals	Chapter 2
Feb. 16	Minerals	Chapter 2
Feb. 23	Specific Gravity	Appendix 2
Mar. 2	Lab Exam 2 - Minerals	
Mar. 9	Igneous Rocks	Chapter 3
Mar. 16	Sedimentary Rocks	Chapter 4
Mar. 23	<i>Spring Break</i> - No Class	
Mar. 30	Metamorphic Rocks	Chapter 5
Apr. 6	Lab Exam 3 - Rock ID	
Apr. 13	Earthquakes Simulation	Handout
Apr. 20	Fossil ID	Chapter 6
Apr. 25	Lab Exam 4 - Fossil ID (Final Class Period)	

Notes and other important dates:

- Schedule may change throughout semester due to unforeseen circumstances.
 - Jan. 9-13: Late registration/schedule adjustment (add-drop)
 - Jan. 13: Last day to add a course
 - Jan. 17: "W" withdrawal period begins
 - Feb. 27: Freshmen/Sophomore mid-term grades
 - Mar. 17: Last day to drop a course
 - Apr. 29: Last day to completely withdraw from Spring semester
 - May 9: Final grades due by noon
- Cancellation of classes due to winter weather can quickly force this schedule to change. In the event the university cancels classes due to such winter weather on a pre-lab quiz or lab exam day, the quiz/exam will be postponed to the following class period, and a new schedule will be determined for the rest of the semester.

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Pre-lab Quiz Schedule

Due Date	Quiz	Topic
Jan. 18	Pre-lab Quiz 1 due	Topographic Maps 1
Jan. 26	Pre-lab Quiz 2 due	Topographic Maps 2
Feb. 9	Pre-lab Quiz 3 due	Minerals 1
Feb. 16	Pre-lab Quiz 4 due	Minerals 2
Feb. 23	Pre-lab Quiz 5 due	Specific Gravity
Mar. 9	Pre-lab Quiz 6 due	Igneous Rocks
Mar. 16	Pre-lab Quiz 7 due	Sedimentary Rocks
Mar. 30	Pre-lab Quiz 8 due	Metamorphic Rocks
Apr. 20	Pre-lab Quiz 9 due	Fossils

Remember: Pre-lab quizzes are available 1 week before the deadline, and are due 15 minutes before class on the due date.