GEOL 1112    Laboratory to Accompany Earth Sciences 2    17151
Fall 2017 Room: GEOL 216 Time: W 13:30-15:20

Instructor:    N. E. Pingitore
Office:    224 Geology
Office hours:  Th 10:30-12:00
Teaching Assistant: Jose A. Garcia (Tony)

Lab Manual: Laboratory Manual for GEOL 1312, available at
http://www.geo.utep.edu/pub/avila/web/1312%20manuall.pdf

Course Description: Laboratory to accompany GEOL 1212, Earth Sciences 2, which is 1) the
survey of earth history as interpreted from and exhibited by plants, animals, rocks, and minerals,
2) the study of the earth in space, and 3) the survey of the physical processes operating in the
hydrosphere, including concepts of historical geology, astronomy, physiography, and
oceanography. Concurrent lab/lecture enrollment required. Prerequisites: Geology 1111.

Class objectives: Upon successful completion of this course, you will be able to: 1) identify
sedimentary rocks and fossils; 2) describe geologic field relationships; 3) describe how different
planets in the solar system compare to each other; 4) describe components of groundwater
systems; 5) compute rates of radioactive decay.

Attendance: In order to pass this course, you must attend the lab meetings. If you miss more
than two labs and do not make them up within one week of the absences, you may fail the class
or be dropped by the instructor. If you miss a lab, it is your responsibility to learn the material,
since it will be on the quiz the following week, and the final exam.

Grading: The grade for this laboratory will be independent from the lecture portion. The lab
portion of your grade will be determined as follows. Each of the eleven lab sessions is worth 10
points; the lowest grade will be dropped for a maximum total of 100 points. Each of the six
quizzes are worth 10 points each, the lowest grade will be dropped for a maximum total of 50
points. The Final Exam is worth 50 points.

11 Labs at 10 points each (drop lowest) = 100
6 Quizzes at 10 points each (drop lowest) = 50
Final Exam = 50
Total = 200 points

Students with Disabilities: If you have a disability and need classroom accommodations,
please contact The Center for Accommodations and Support Services (CASS) at 747-5148, or
by email to cass@utep.edu, or visit their office located in UTEP Union East, Room 106. For
additional information, please visit the CASS website at www.sa.utep.edu/cass. See also
http://ddce.utexas.edu/disability/.

Grade of Incomplete: All grades of Incomplete must be accompanied by an Incomplete Contract
that has been signed by the instructor of record, student, departmental chair, and the dean.
Although UTEP will allow a maximum of one year to complete this contract, the College of Science
requests it be limited to one month based upon completion data. A grade of Incomplete is only
used in extraordinary circumstances confined to a limited event such as a missed exam, project,
or lab. If the student has missed a significant amount of work (e.g. multiple assignments or tasks),
a grade of Incomplete is not appropriate or warranted. 

**Academic Honesty and other issues:** The Geological Sciences Department has gone to great lengths in order to make learning the material easier than engaging in scholastic dishonesty, which is defined in the UTEP Student Handbook and also at http://www.utep.edu/dos. Proven violations of these detailed regulations may result in any of the consequences outlined in the Student Handbook. Cellular phones and pagers are to be turned off or placed in silent mode during class. Conducting telephone conversations during class time may result in disciplinary action.

**Course Outline Note:** This outline is subject to change.

**Week 1** Aug. 30  
No Class

**Week 2** Sept. 6  
Labor Day – No Class

**Week 3** Sept. 13  
Exercise — Review of Minerals and Plate Tectonics

**Week 4** Sept. 20  
Exercise — Igneous Rocks

**Week 5** Sept. 27  
**Quiz:** Minerals and Igneous Rocks  
Exercise — Fossils

**Week 6** Oct. 4  
**Quiz:** Fossils  
Exercise — Sedimentology, Microscopy

**Week 7** Oct. 11  
Exercise — Sedimentary Rocks

**Week 8** Oct. 18  
**Quiz:** Sedimentology and Sedimentary Rocks  
Exercise — Stratigraphy

**Week 9** Oct. 25  
Exercise — Interpreting Geologic History

**Week 10** Nov. 1  
**Quiz:** Stratigraphy & Interpreting Geologic History  
Exercise — Relative Dating and Absolute Dating

**Week 11** Nov. 8  
**Quiz:** Relative Dating and Absolute Dating  
Exercise — Surface Water and Groundwater

**Week 12** Nov. 15  
Exercise — Introduction to Geophysics

**Week 13** Nov. 22  
**Quiz:** Surface Water and Groundwater and Geophysics  
Exercise — Impact Craters and Exploring the Solar System

**Week 14** Dec. 29  
Review for Final Exam

**Week 15** Dec. 6  
**LAB FINAL EXAM**

Drop Deadline is November 3