

GEOL 1112 - Laboratory to Accompany Earth Sciences 2 Spring 2016 CRN 25907

Instructor: *Matthew Fox*

Laboratory Times: Monday 6:30 – 8:20 pm

Office hours: Tuesday: 1:00 pm – 2:00 pm, Thursday 2:00pm - 3:00pm, or by appointment

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Lab Manual: Laboratory Manual for GEOL 1112, available

<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 1311 or Geology 1211.

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.

Lab Make-up Policy: you can attend another lab section during the week you missed a class to make up your absence, except on test days. Tell the instructor who you are, and ask for a Lab Make-up Form to be filled out.

Please note that you may be turned away if the class is full. 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. After the start of the next lab week, labs MAY NOT be made up.

Grading: 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. Grades will be determined as follows:

10 Labs at 10 points each = 100

5 Quizzes at 10 points each = 50

Final Exam = 50

Total = 200 points

Students with Disabilities: If you think you may have a disability or if you are experiencing learning difficulties, please contact the Disabled Student Services Office (DSSO) at (915) 747-5148 (voice or TTY), in Union East Room 106, or by E-Mail at dss@utep.edu. They will provide any necessary accommodations. You should also meet with your instructor in order to facilitate your needs. You are expected to provide documentation of your disability in order to make special arrangements in this class.

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 | Date | Lab Topic | Quiz |
|-------------|-------------|-----------------------------------|---|
| 1 | 1/25 | Minerals | |
| 2 | 2/1 | Igneous Rocks and Plate Tectonics | |
| 3 | 2/8 | Fossils | Minerals/Igneous/Tectonics |
| 4 | 2/15 | Sedimentology and Microscope | Fossils |
| 5 | 2/22 | Sedimentary Rocks | Lecture Exam I – <u>no quiz</u> |
| 6 | 2/29 | Geologic History | Sedimentology/Micro/Sed. Rocks |
| 7 | 3/7 | Spring Break | |
| 8 | 3/14 | Stratigraphy and Relative Dating | |
| 9 | 3/21 | Absolute Dating | Geologic History/Stratigraphy |
| 10 | 3/28 | Surface Water and Ground Water | Rel/Absolute Dating |
| 11 | 4/4 | Geophysics | Lecture Exam II – <u>no quiz</u> |
| 12 | 4/11 | Impact Craters | Geophysics |
| 13 | 4/18 | Review | |
| 14 | 4/25 | Lab Final Exam | |
| 15 | 5/2 | Return lab finals and review | |