GEOL 102 Historical Geology: The History of Earth and Life
Spring Semester 2011

Laboratory Information
GEO 2107 2:00-5:00 p.m.  W (Lab)

Instructor: Dr. Thomas R. Holtz, Jr.
Room: Centreville 1216, Office Hours: T 8:30-11:00 am or by appointment
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LAB MANUAL


LAB SCHEDULE

Jan. 26  SNOW CANCELLATION
Feb. 2  LAB: Description and Classification of Sedimentary Rocks (DEH Lab 1)
Feb. 9  LAB: Interpretation of Sedimentary Rocks (DEH Lab 2)
Feb. 16 LAB: Relative Time and Sequence of Events (DEH Lab 3)
Feb. 23 LAB: Lithostratigraphy (DEH Lab 4)
Mar. 2  LAB: Biostratigraphy (DEH Lab 5) & Radioisotopic Dating Techniques (DEH Lab 6)
Mar. 9  LAB: Fossil Preservation and Taphonomy (DEH Lab 8)
Mar. 16 LAB: Lab Exam 1 (Covers material from 1/26 to 3/2)
Mar. 30 LAB: Paleontology I Common Precambrian and Paleozoic Fossils I (Read DEH Lab 10 and review Appendix; Lab will be a handout)
Apr. 6  LAB: Paleontology II Common Paleozoic Fossils II (Read DEH Lab 11 and review Appendix; Lab will be a handout)
Apr. 13 LAB: Paleontology III Common Post-Paleozoic Fossils (Read DEH Lab 12 and review Appendix; Lab will be a handout)
Apr. 20 LAB: Paleontology Interpretation of Geological Maps (Read DEH Lab 15; this Lab is a handout, but we will do Lab 15 week)
Apr. 27 LAB: Geologic Maps and Interpretation of Earth History in Selected Regions maps B, C, D, G (DEH Lab 15)
May 4  LAB: Lab Exam 2 (Concentrates on labs from March 2 onward)
LAB POLICIES

- Please read the introductory material in the lab manual by the time we meet in lab.
- Labs are due the next lab meeting (1 week later). If they are turned in on the next class time (Friday) there will be a 10% grade reduction; on the following Monday a total of 30% grade reduction; and a full week late will garner a 50% grade penalty. Labs won’t be accepted for a grade later than 1 week overdue (barring legitimate extenuating circumstances.)
- Lab specimens will remain out for your examination through the end of the week and on the following Monday. However, Dr. Holtz will typically replace lab specimens sometime on Monday afternoon.
- You are encouraged to collaborate and interact with each other and with Dr. Holtz while working on the labs. However, all work you turn in must be your own.
- DON’T be a specimen hog! Make sure that others get adequate access to the hand samples.
- ALWAYS return specimens to their appropriate boxes
- Use the dilute HCl wisely:
  - Use small drops, only leave it on long enough to validate whether there is effervescence or not; and wipe it up afterwards.
    - Leaving acid on the hand samples will allow the reaction to run its course, and leave a reaction rind on the rock. This will mislead students in the future)
  - In general, only use acid on fresh surfaces
  - In general, don’t drop acid on the fossils.
- We have limited samples, so please be careful with them. Doubly so with the fossils!!
- If you are having problems, don’t be shy; ask for help!