

GLY 2100 Lab Syllabus, Spring 2021

Sections 0008-21694, 0009-26629 (M 3:00-4:55; periods 8-9)
Sections 04D0-14357, 04D1-26630 (W 9:35-11:30; periods 3-4)
Section 5533-28325 (F 9:35-11:30; periods 3-4)

Lab instructors: Scott Miller, Mackenzie Ross

Scott's Zoom Office Hours: Friday, 1-3 pm. **Mackenzie's Zoom Office Hours:** Tuesday, 10-12 pm

Course Philosophy: This lab is meant as a complement to the Historical Geology lectures by Dr. Joseph Meert. It will provide opportunities for active and creative learning (i.e., student-driven investigations and artistic expressions) to reinforce geologic concepts learned in lecture. Further, understanding Earth's 4.5-billion-year history requires understanding of how geologic research is conducted and communicated. Therefore, you may be asked to read real journal publications and demonstrate comprehension. Several of the lab activities were recently introduced into the curriculum at UF, and others may be brand new this year, meaning that they are, in many ways, experiments. Some assignments may involve multiple correct interpretations and answers. Because of these factors, and due to inevitable challenges we will face resulting from the COVID-19 pandemic (i.e., safety, attendance, providing class materials, online work, etc.), we will try to be as flexible as possible in grading. We ask that you are flexible with us in return. Teaching is a delicate balance between providing information and evaluating comprehension/ability to problem-solve. Any attempt to hold you to a professional standard is an attempt to train you for the future. This course strives not to repeat the lab exercises of previous courses you have taken at UF or elsewhere. The highest goals of the lab section are 1) to augment your knowledge of historical geology for recall during lecture section examinations, and 2) to imprint long-term geoscientific knowledge through impactful lab experiences as you continue your education in geosciences or otherwise at the University of Florida.

Laptop policy (READ ME!): You must bring your laptop to lab periods. There are many labs in which we may be using the internet as a resource and/or submitting an in-class assignment via Canvas.

Grading: This Lab is a significant portion of your grade (30%!). Each lab assignment is graded equally (50 pts each), **except for the blue highlighted assignment which is worth 100 points, (see schedule below).** **This is your final product due at the end of the semester (exact dates TBD).** There are no exams in this lab, but the final products you turn in at the end of the semester are meant to augment your knowledge for your lecture final.

Due dates: In general, we'd like you not to have to spend much outside time on lab assignments, given you stay for the entire lab period each week. Assignments will be due 1 week from the assigned date, at the beginning of the lab period, unless otherwise stated.

Late work & Attendance/Absence Policies: Same as lecture, see lecture Canvas syllabus for details. **Many labs are designed for in-class instruction only. In certain labs, you will have to do research and present your findings in class. Therefore, you must attend to receive credit.** We recognize that in a COVID semester we may have to be flexible. Please work with us as we will work with you.

Etiquette, Disabilities, Cheating: Same as lecture, see lecture Canvas syllabus for details.

COVID WARNING: You must be Covid cleared by UF before every lab. To attend labs you must maintain continuous clearance, which may mean continuous testing. Your cooperation in keeping us all healthy is appreciated.

Schedule: Tentative and Subject to Change! Readings in ‘Lecture’ column from ‘*Evolution of the Earth*’ 8th Ed. Prothero and Dott (2010)

Week	Lecture*	Lab
1	Introduction to Science/Philosophy	1- How is geologic research conducted?
2	Basic Concepts/Review of Intro Course	2- Intro Geologic Maps, X-Sections, & Struct. Contours
3	Time, Relative and Absolute	3- Geologic Maps Interpretation, Texas
4	Origin/Evolution of the Earth	4- Rock Identification & Evolution
5	Precambrian #1	5- Mineral ID & Evolution
6	Precambrian #2	6- Miller-Urey Experiment
7	Evolution and Early Life	7- Trilobite Evolution
8	Early Paleozoic/Sauk Sequence	8- Paleozoic Life
9	Late Ordovician	9- Geography of Phanerozoic Geology using Google Earth (GPGuGE) - due in several weeks
10	Middle Paleozoic-Late Paleozoic?	10- Mesozoic Life Activity
11	Why life goes extinct	11- K-T Extinction Activity
12	Mesozoic Life-1	SEFS Skulls Activity
13	Mesozoic Life-2	Human/Anthro Guest Spkr
14	Cenozoic and Hominids	Makeup Labs
15	Summary	No Lab
16	Exam Week	Exam Week

*Lecture schedule may be slightly inaccurate beginning with Week 10. Check Meert syllabus for correct schedule.