

GEOS 3132 *Age of Dinosaurs Lab* Syllabus

Supervising Professor Dr. Homer Montgomery mont@utdallas.edu

TA: Eric Tangumonkem ett032000@utdallas.edu

Office: FN 3.617 Office hours: By appointment

Course Summary

Age of Dinosaurs Lab is separate from, but complementary to the Age of the Dinosaurs class (GEOS 3332). While both classes focus on the same subject, this lab section is graded entirely separately. It should therefore come as no surprise you're your grade in this section could be different from the grade in Age of the Dinosaurs class.

Topics covered

The lab section can be divided into *three major* sections: at the end of each section there will be a quiz which covers the information most recently focused upon. These are, by and large, non-cumulative.

Section 1: Igneous rocks, volcanism, & tectonic plate Metamorphism. Rock cycle Sedimentation & deposition Geologic time scale / radiometric dating.

Section 2: Geography, continental configuration, and paleoclimate (Walking with Dinosaurs #1) Early Triassic, just after Permian extinction: protomammals, archosaurs, and others (amphibians, diapsid reptiles, plants, etc.) Cladistics exercise Fossil patterns

Section 3: Weighing sauropods, Energetics calculations, Froude numbers in action. Deciding what is in an owl pellet, Fossil sharks. What happened to the dinosaurs?

QUIZZES and EXAMS

Quizzes count for 40% and daily assignments count for 60% of the final grade. You are highly encouraged to attend the labs for there is no make up if you miss a lab. You are expected to turn in your lab work sheets at the beginning of the next lab.

Date	Topic
May 16	Igneous rocks, volcanism, & tectonic plates Metamorphism. Rock cycle
May 18	Sedimentation & deposition
May 23	Dating rocks, fossils and fossilization. Geologic time scale / Radiometric dating (# 1movie) (Review)
May 25	Quiz 1
May 30	Geography, continental configuration, and paleoclimate (Walking with Dinosaurs (#2 Movie) Early Triassic, just after Permian extinction: protomammals, archosaurs, and others (amphibians, diapsid reptiles, plants, etc.)
June 1	Weighing sauropods, Cladistics exercise, Quiz 2
June 6	Fossil patterns Energetics calculations, Working with fossils
June 8	What happened to the dinosaurs? (#3 Movie) Deciding what is in an owl pellet
June 13	Quiz 3 Presentations
June 15	Turn in Final project