

**The Evolution and Paleobiology of**  
**Dinosaurs**

**Geology 12**

**Winter Quarter, 2018**

**Tuesday and Thursday, 12:10 - 1:00 PM**

**1001 Giedt Hall**

**Credit:** 2 units

**Prerequisites:** none

**Grading:** letter grade

**Instructor:** Sandy Carlson   **Telephone:** 2-2834   **E-mail:** sjcarlson@ucdavis.edu

**Office Hours:** Tuesday & Thursday 10:30-11:30 am or by appt., Rm. 2123 Earth & Physical Sciences Bldg.

**Required Text:** *Dinosaurs: a Concise Natural History* by D.E. Fastovsky and D.B. Weishampel, 3rd Edition, 2016, Cambridge University Press, Cambridge. 432 pp.

**Requirements:** One midterm exam (45%) and a final, cumulative exam (55% of grade).

<b>Date</b>	<b>Lecture</b>	<b>Reading: Chapters</b>
January 9	Introduction to Dinosaurs: History of study	14
January 11	Dinosaurs in Temporal Perspective: Geological time	2
January 16	Geology and Climate in the Mesozoic Era	2
January 18	Collecting Dinosaurs: How is it done?	1
January 23	Dinosaur Ancestors: Who are they?	3, 4, and 15
January 25	Dinosaur Relationships I: Saurischia	8 and 9
January 30	Dinosaur Relationships II: Ornithischia	5, 6, and 7
February 1	Dinosaur Biomechanics I: Postcranial	Review 5-9
February 6	Dinosaur Biomechanics II: Dental and cranial	Review 5-9
February 8	<b>MIDTERM:</b> during class time, in 1001 Giedt Hall	-----
February 13	Pterosaurs	-----
February 15	The Origin of Birds	10 and 11
February 20	Dinosaur Physiology I: Endothermy Hypothesis	12
February 22	Dinosaur Physiology II: Testing the Hypothesis	12
February 27	Dinosaur Behavior I: Functional Morphology; Trackways	Review 5-9
March 1	Dinosaurs Behavior II: Reproductive Behavior	Review 5-9
March 6	Life in Mesozoic Seas: Marine Reptiles	-----
March 8	Hot New Topics in Dinosaur Paleobiology	-----
March 13	Dinosaur Extinction I: Hypotheses	13 and 16
March 15	Dinosaur Extinction II: Testing the Hypotheses	16
March 20	<b>FINAL EXAM:</b> 8:00 to 10:00 am in 1001 Giedt Hall	