Earth & Planetary Sciences 102-6-20 — Fall Quarter 2016
First-Year Seminar: “Death of the Dinosaurs” Mon, Wed 2:00–3:20 PM; Tech F391
Course Webpage: http://www.earth.northwestern.edu/courses/102

Instructor:
Donna M. Jurdy (email: d-jurdy@northwestern.edu linked to donna@earth.northwestern.edu)
Tech F496; office: (847) 491-7163; fax: (847) 491-8060
Office Hours: MWF 1–2 PM; Homepage: http://www.earth.northwestern.edu/people/donna

Textbooks:
This book and a large number of other sources on extinctions and dinosaurs (see back) will be on Reserve (24 hr) in the Main Library.

Topics:
Geological time and dating
Dinosaur hunters
Fossilization and the geological record
History of life on earth and theories for evolution
Dinosaurs, classification, and renaissance
Extinctions and periodicities
Cretaceous-Tertiary boundary, iridium layer, and associations
Theories for extinctions: Cosmic occurrences (Planet X, and Nemesis, the “Death Star”)
Terrestrial causes (volcanism, glacial ages, and others)
First contact

Papers:
Participants will write 4 papers and give several presentations. The first paper will be autobiographical. The topic of the second (about 3–4 pages) and third (4–5 pages) to be assigned. Students select their final paper (7–8 pages) topic and present in class. Peer review and revision will be included in the process of writing papers.
The development of research skills and use of the Northwestern Library will be stressed. Also, documentation of source material and academic integrity will be emphasized.
Final Paper: due Saturday, 12 noon, December 3 (End of WCAS Reading Period)

Grading:
Weight: 20% Homework, 20% second paper + 20% third paper + 40% final paper (half presentation; half paper) determines final grades.
Paper and presentation evaluation will be based on content and style, weighted equally.
Late assignments earn reduced grades: one letter grade for papers, 50% for homeworks.
Assignments and due dates will be both announced in class and posted on CANVAS (which also shows grades for assignments/papers)
Reserve Readings

Alvarez, W. #T. Rex and the Crater of Doom
Archibald, J. D. #Dinosaur Extinction and the End of an Era
Bakker, R. T. #The Dinosaur Heresies
Brochu, C. et al. #A Guide to Dinosaurs
Cadbury, D. #Terrible Lizard: The First Dinosaur Hunters, & the Birth of a New Science
Colbert, E. H. #Dinosaurs, An Illustrated History
Currie, P. J. & K. Padin #Encyclopedia of Dinosaurs *
Czerkas, S. & S. Czerkas #Dinosaurs: A Global View
Dodson, P. #The Horned Dinosaurs
Eldredge, N. #Fossils
Fastovsky, D. #The Evolution and Extinction of the Dinosaurs & D. B. Weishampel
Fastovsky, D., #Dinosaurs: A Concise Natural History & D. B. Weishampel
Fiffer, S. #Tyrannosaurus Sue
Gallenkamp, C. #Dragon Hunter: Roy Chapman Andrews & the Central Asiatic Expeditions
Gee, H. & L. V. Rey #Field Guide to Dinosaurs
Gould, S. J. #The Book of Life
Horner, J. R. & D. Lessem #The Complete T-Rex
Jaffe, M. #The Gilded Dinosaur
Lucas, S. #Dinosaurs: The Textbook
Norell, M. et al. #Discovering Dinosaurs
Norman, D. #Illustrated Encyclopedia of Dinosaurs
Parsons, K. M. #Drawing out Leviathan: Dinosaurs and the Science Wars
Psihoyos, L. #Hunting Dinosaurs
Reader, J. #The Rise of Life
Schopf, J. #Major Events in the History of Life
Weishampel et al. #The Dinosauria

* Reference Collection, Main Library