

Paleobiology (P BIO) CTY Course Syllabus

Week One

	Morning	Afternoon	Evening
M	Preassessment Classroom Policies Activity: Geologic Time	Lab: Rocks and Minerals	Read: Fossil Book Ch. 1-2 Finish: Write:
T	Principles of Geology Fossilization & Sedimentology	Activity: Geochronology	Read: Zimmer Ch. 1-2 Finish: Write:
W	Taphonomy Activity: Biostratigraphy Activity: Plate Tectonics	Lab: Preservation & Fossilization	Read: Zimmer Ch. 5, FB Ch. 5 Finish: Write:
Th	Early Earth & the Origin of Life	Lab: Molds and Casts Lab: Raw Amber Preparation	Read: FB Ch. 21, handout Finish: Write:
F	The Paleozoic: Invertebrates & Early Vertebrates Lab: Fossil and modern invertebrates	Lab: Squid dissection	no evening session

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Week Two

	Morning	Afternoon	Evening
Su	no class	no class	Read: FB, Ch.22, handout Finish: Write:
M	Evolution & Natural Selection DVD: <i>Darwin's Dangerous Idea</i>	The Paleozoic II: Early vertebrates and fish Lab: Chordates and early vertebrates	Read: FB, Ch 23-24 Finish: Write:
T	Functional Morphology DVD: <i>Great Transformations</i> Lab: Beaks of the Finches	Lab: Natural Selection Simulation	Read: Zimmer, Ch. 4,6; handout Finish: Write: Review: for exam 1
W	From Sea to Land: The Adaptations of Terrestrial Plants & Animals	Exam 1: Geology, Fossilization & Paleozoic Life Discussion: Are humans interfering with evolution?	Read: FB, Ch. TBA Finish: Write:
Th	Field Trip: All day, Los Angeles Natural History Museum		Read: FB, Ch. TBA; handout Finish: Write:
F	The Mesozoic: Dinosaurs & Flying Reptiles Lab: Dinosaur Skull Morphology	Lab: Dinosaur Running	no evening session

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Week Three

	Morning	Afternoon	Evening
Su	no class	no class	Read: Brain handout + questions, Ch. 5 and 6 <i>GaGoE</i>
M	Dinosaurs continued.... Evolution of Flight <i>Archaeopteryx</i> and Lagerstätten	Cladistics & Phylogenetics Lab: Caminalcules	Read: Benton handouts Write: Mass extinction essay
T	Mass Extinctions & Mechanisms DVD: <i>Extinction!</i> (1h)	Lab: Impact!	Read: Rancho LaBrea handouts Review: Exam 2
W	Field trip (all-day): Page Museum – La Brea Tar Pits		Read: handout, <i>FB</i> Ch. 35
Th	Lab: My, What Big Teeth You Have...Animal Dentition & Adaptation; Fossil Horses Exam 2: Mesozoic and Cenozoic Life and Evolution	The Cenozoic: The Rise of the Mammals & Angiosperms Lab: Floral Adaptations	no evening session
F	Post-Assessment DVD & Class Party	Goodbye!	