

Lecture 1 - Intro

Clade
Cladogram
Dimetrodon
Dinosaur
Subcalde
Synapomorphy

Lecture 2 – Science 1

Empirical
Falsifiable
Hypothesis
Law
Normative
Oviraptor
Progressive
Theory

Lecture 3 – Science 2

Scientific journal
Peer review
Corroboration

Lecture 4 – Fossilization

Biostratinomy
Body fossil
Diagenesis
Fossil
Hydroxyapatite
Lagerstätte
Bone bed
Molecular fossil
Trace fossil

Lecture 5 – Paleontology

Deinonychus
Erosion
Geologic map
Igneous rock
Mesozoic
Metamorphic rock
Paleontology
Sedimentary rock

Sedimentation
Stratigraphy

Lecture 6 – Stratigraphy

Absolute time
Biostratigraphy
Cretaceous
Geochronology
Jurassic
Law of superposition
Lithostratigraphy
Radioactive decay
Relative time
Strata
Triassic

Lecture 7 – Morphology

Ancestral condition
Anterior
Convergent evolution
Descent with modification
Dorsal
Ilium
Ischium
Mandibular fenestra
Morphology
Naris
Orbit
Ornithischia
Posterior
Postorbital fenestrae
Pubis
Saurischia
Theory of evolution
Ventral

Lecture 8 – Cladistics

Cladistics
Comparative anatomy
Monophyletic clade
Node
Paraphyletic clade
Phylogeny

Root
Taxon

Lecture 9 – Paleoworld

Continental drift
Evaporite
Paleobiogeography
Paleoclimatology
Paleothermometers
Plate tectonics theory
Tillite

Lecture 10 – Triassic 1

Pangea
Amniotes
Amphibians
Lystrosaurus
Synapsids
Diapsids
Permo-Triassic mass extinction
Siberian traps
Triassic paleoclimate
Triassic paleogeography

Lecture 11 – Triassic 2

Evolutionary diversification
Cynognathus
Crurotarsi
Effigia
Pterosaurs
Pycnofibers
Eoraptor
Herrerasaurus
Ischigualasto Formation

Lecture 12 – Triassic 3

CAMP volcanism
Coelophysis
Plateosaurus
Sauropodomorphs /
Sauropods

Lecture 13 – Jurassic 1

Theropods
Birds
Gondwana
Homology
Jurassic paleoclimate
Jurassic paleogeography
Laurasia
Mosaic evolution
Ornithischia

Lecture 14 – Jurassic 2

Allosaurus
Camptosaurus
Ceratosaurus
Dryosaurus
Morrison Formation
Niche partitioning
Ornithopods
Stegosaurus
Thyreophora

Lecture 15 – Jurassic 3

Brontosaurus
Brachiosaurus
Gigantothermy
Neural spines
Pneumatic vertebrae

Lecture 16 – Cretaceous 1

Angiosperms
Cretaceous paleoclimate
Cretaceous paleogeography
Argentinosaurus
Spinosaurus

Lecture 17 – Cretaceous 2

Ankylosauria
Archaeoceratops
Ceratopsia
Chronological variation
Edmontosaurus
Hadrosaurids

Marginocephalia
Pachycephalosauria
Sexual selection
Triceratops

Lecture 18 – Cretaceous 3

Tyrannosaurus
Velociraptor

Lecture 19 – Extinction

Chicxulub crater
Cretaceous – Paleogene mass extinction
Deccan traps
Hell Creek Formation
Iridium
Signor-Lipps effect
Tanis
Tectites

