Topics for 9 March 2023 GVZ lecture at UNM duck pond

Turtles

Phylogeny

Turtles within vertebrates

Cryptodira/Pleurodira within turtles

Testudines as a Node-based name for turtles

Synapomorphies for Testudines

Lack teeth

Limb girdles inside ribs

Shell

Turtle Shell

Carapace, plastron

'Functions'

Selection

Breathing

Usual

Skin

Butt

Anaerobic

Freeze tolerance

Turtle traits

Oviparous

Usually TSD

Internal fertilization

No parental care

Long-lived, long to maturity

Diversity

Chelonidae (sea turtles)

Chelydridae (snapping turtles)

Trionychidae (softshell turtle)

Testudinide (tortoises)

Emydidae (box turtles, water turtles, others…)

Species in the UNM duck pond

Conservation

Threats to turtles