Major difference between reptiles and mammals

REPTILE Epidermis covered with scales	Bio 1413, Ziser, 20 MAMMAL Epidermis covered with hair
Most with three chambered heart	All with four chambered heart
Most with no diaphragm	Diaphragm for respiration
Low metabolic rate	High metabolic rate; homeotherms
Oviparous (egg laying) little care of young	Viviparous (young develop within mother) placenta, live birth & care of young with milk
Growth continues through life	Growth limited after adulthood
Skull with small brain case, several bones forming jaw	Skull with expanded brain case, single bone forming jaw
Teeth continually replaced with simple cheek teeth	Two sets of teeth only (deciduous & permanent) with complex cheek
Anterior brain (cerebrum) relatively small	teeth Anterior brain (cerebrum) larger and often convoluted
Skull with one occipital condyle	Skull with two occipital condyles
Single middle ear bone	Three middle ear bones

(malleus, incus, stapes)

(columella=stapes)

Bony palate usually incomplete	Bony palate completely separates nasal passages from mouth
Ribs present on all vertebrae Pelvic bones separate	Free ribs confined to thoracic vertebrae Pelvic bones fused
Sprawling gait with limbs emerging horizontally from body	Upright stance wth limbs directly beneath body