

# 4. Mammal Skulls

## 4.1 Checklist of bones, holes, and features for mammal skulls

### BONES

#### Chondrocranium

Mesethmoid (or ethmoid)  
Orbitosphenoid  
Presphenoid  
Basisphenoid  
Basioccipital  
Exoccipital  
Supraoccipital  
Petrosal (= prootic)

#### Splanchnocranium

Alisphenoid (= epipterygoid)  
Auditory Ossicles  
    Stapes (= hyomandibula)  
    Incus (= quadrate)  
    Malleus (= articular)

#### Dermatocranium

Premaxilla  
Maxilla \*  
Nasal  
Frontal  
Parietal  
Interparietal (or postparietal)  
Vomer  
Palatine  
Pterygoid  
Lacrimal  
Jugal (or Malar)  
Squamosal  
Tympanic / Ectotympanic  
Entotympanic [a neomorph]  
Dentary \*

### HOLES

External nares  
Choanae (internal nares)  
Incisive foramen  
Orbit  
Temporal fenestra  
Infraorbital foramen  
Lacrimal foramen  
Optic foramen  
Orbital fissure  
Foramen rotundum  
Alisphenoid (alar) canal  
Foramen velle  
Eustachian tube  
Postglenoid foramen  
External auditory meatus (EAM)  
Stylomastoid foramen  
Hypoglossal foramen  
Carotid canal  
Posterior lacerate foramen  
Anterior lacerate foramen  
Foramen magnum  
Mandibular foramen  
Mental foramen

### CRANIAL FEATURES

Postorbital process (or bar or plate)  
Zygomatic arch  
Glenoid (mandibular) fossa  
Postglenoid process  
Auditory bulla  
Mastoid process  
Paroccipital process  
Sagittal crest  
Occipital crest (or nuchal)  
Occipital condyle

### MANDIBULAR FEATURES

Coronoid process  
Masseteric fossa  
Sigmoid notch  
Condylloid process  
Mandibular condyle  
Angular process