

# Zoology Lab (BIOL 3454)

## Required Taxonomy

### Phylum Porifera

Class Calcarea – Scypha, Leucosolenia

Class Hexactinellida – no specimens

Class Demospongiae – bath sponge

### Phylum Cnidaria

#### Class Hydrozoa

Order Hydroidea – Obelia, Gonionemus, Hydra

Order Siphonophora – Portuguese Man-O-War

Order Hydrocorallinae – Fire Coral

#### Class Scyphozoa

Order Semostomae – Aurelia

#### Class Anthozoa

Order Actinaria – Anemone

Order Scleractinia – True Corals

### Phylum Platyhelminthes

Class Turbellaria – Planarians (Dugesia)

Class Trematoda – Flukes (Clonorchis, Schistosoma)

Class Cestoda – Tapeworms (Taenia)

Phylum Nemata

Class Nematoda – roundworms (Ascaris, Turbatrix, Trichinella)

Phylum Rotifera

Class Rotifera – Rotifers (Philodina)

Phylum Mollusca

Class Gastropoda

Subclass Prosobranchia – Sea snails (Busycon)

Subclass Opisthobranchia – Sea slugs and Sea hares (Aeollus)

Subclass Pulmonata – Land snails (Helix aspera)

Class Bivalvia

Subclass Lamellibranchia – oysters, clams, mussels, scallops

Class Cephalopoda

Subclass Nautiloidea – Nautilus

Subclass Ammonoidea - (all extinct) ammonites

Subclass Coleoidea – Squid, Octopus, Cuttlefish

Class Polyplacophora – Chitons

Phylum Annelida

Class Polychaeta – marine polychaetes

Class Oligochaeta – earthworms

Class Hirudinea – leeches

Phylum Arthropoda

Subphylum Trilobita – Trilobites

Subphylum Chelicerata

Class Merostomata – Horseshoe Crabs

Class Arachnida

Order Scorpionida – Scorpions

Order Araneae – Spiders

Order Acari – Ticks and Mites

Subphylum Crustacea

Class Branchiopoda

Order Anostraca – Eubranchipus

Order Cladocera (or Diplostraca) – Daphnia

Class Ostracoda – Ostracod

Class Maxillopoda

Subclass Copepoda - Copepods

Subclass Cirripedia – Barnacles

Class Malacostraca

Order Isopoda – roly pollies

Order Amphipoda – Amphipods

Order Decapoda – Crabs, crayfish, lobsters, etc.

Subphylum Hexapoda

Class Insecta (Hexapoda) – Insects

Subphylum Myriapoda

Class Chilopoda – centipedes

Class Diplopoda – millipedes

Phylum Onychophora – Onychophorans

Phylum Echinodermata

Class Crinoidea – sea lillies, feather stars

Class Asteroidea – sea stars

Class Ophiuroidea – brittle stars

Class Echinoidea – sea urchins

Class Holothuroidea – sea cucumbers

Phylum Hemichordata – Acorn worms

Phylum Chordata

Subphylum Urochordata – Tunicates

Subphylum Cephalochordata – Lancelets

Subphylum Craniata (Vertebrata)

Superclass Agnatha

Class Myxini – Hagfish

Class Petromyzontes – Lamprey

Superclass Gnathostomata

Class Chondrichthyes (Cartilaginous Fish)

Subclass Elasmobranchii – Sharks, Skates, and Rays

Subclass Holocephali – Ratfish

“Group” Osteichthyes (Bony Fish)

Class Actinopterygii – Ray-finned fishes

Class Sarcopterygii – Lobe-finned fishes

Class Amphibia (Amphibians)

Subclass Lissamphibia

Order Urodela (Caudata) – Salamanders

Order Anura – Frogs and Toads

Order Gymnophiona – Caecilians

Class Reptilia (Reptiles)

Subclass Testudinata

Order Chelonia – Turtles

Subclass Diapsida

Infraclass Lepidosauromorpha

Order Sphenodontia – Tuataras

Order Squamata – Lizards, Snakes

Infraclass Archosauromorpha

“Archosauria” (crocodiles and dinosaurs)

Order Crocodylia – Crocodilians

Order Saurischia – Lizard-hipped dinos

**(Birds belong here)**

Order Ornithischia – Bird-hipped dinos

Class Aves – Birds

Class Mammalia (mammals)

Subclass Prototheria (egg laying mammals)

Order Monotremata – Platypus, Echidna

Subclass Theria

Infraclass Metatheria

Order Marsupialia – Marsupials

Infraclass Eutheria – Placental mammals