



### Taxonomy of Zoology

Course Code	Course Num.	Course Name	Credit Hours	Lec	Lab	Tut	Prerequisites
Bio	111	Taxonomy of Zoology	4	3	2	0	

#### Objectives

By the end of this course, the student must be able :-

- To identify basic concepts and principles of general Zoology.
- To Know that general Zoology provides a systematic investigation of the major protista and animal groups.
- To discuss and correctly apply evolutionary, taxonomic, anatomical, physiological, behavioral, and ecological characteristics .

#### Syllabus:

- Introduction: General classification of Animal kingdom..
- Protozoa , Protozoa & systematics , Systematics.
- Porifera , Porifera & Cnidaria.
- Cnidaria , Platyhelminthes , Platyhelminthes: tapeworms.
- Rotifera, Mollusca.
- Annelida, Nematoda, introduction to arthropods.
- Arthropoda: chelicerates , Arthropods: myriapods & crustaceans.
- Arthropods: hexapoda (Insecta) , Insecta , Echinodermata.
- Introduction to chordates , Cephalochordates & vertebrate origins , Fishes.
- Fishes & Amphibians , Amphibians & non-avian reptiles , Snakes & birds.
- Birds & mammals.
- Support, protection, & movement , Homeostasis , Homeostasis & Internal fluids.
- Internal fluids & respiration, Respiratory & Digestive systems.
- Nervous coordination , Sense organs.
- Embryology:
  - Sperm and ovum structure and formation.
  - Cleavage, gastrulation and organogenesis.

#### References:

- Hickman C. P. Jr. et al., Integrated Principles of Zoology. 16th ed.(2013). ISBN-13: 978-0073524214.
- Paul Waldau. Animal Studies: An Introduction 1st Edition (2013). ISBN-13: 978-0199827039.

