

Zoology teaching lab 218

a. General zoology: The laboratory provides students with the experience with regard to the diversity of organisms from taxonomic, morphological, structural, functional and ecological perspectives. Students study slides using a compound light microscope and examine models and preserved specimens of vertebrates and invertebrates.

b. Developmental biology: Histological sections are used to study gametogenesis in Grasshopper, *Ascaris*, cat, and rabbit. Fertilization in Sea Urchin, cleavage and neurulation in frog will be illustrated using histological sections too. Histological sections of the frog, chick, and the pig embryos to illustrate changes that occur as the embryo develops. Embryo and fetus models are used to study different developmental stages. Fertilized chicken eggs are used to study different developmental stages. Laboratory topics cover gametogenesis, early development, and the development of the body systems.

c. Histology: Students study preparation of tissues for microscopic examination, use and care of the microscope, sections of different animal tissues: Epithelial, connective, cartilage and bone, muscles, nervous, heart, blood vessels and lymphoid organs, digestive tract, organs associated with the digestive tract, the respiratory system, skin and urinary system, male and female reproductive systems.









