



ANS 201: Comparative Anatomy and Physiology of Vertebrate Animals

An introductory course in the comparative anatomy and physiology of vertebrate animals to include amphibian, avian, and mammal exploratory dissections. Emphasis is placed on distinguishing gross anatomical structures, critical organ systems and functional relationships with a comparative focus on circulatory systems, gastrointestinal tracts, respiratory systems, and reproductive systems. Notation of the normal anatomy and physiology with references made to deviation from the norm, which might constitute a diseased state, and extrapolating learned material to additional species is also covered. A passing grade of C (73) or better in the laboratory portion of this course is required to receive a final passing grade for the course. Prerequisite(s): BIO 111 or BIO 121 with a grade of C or better. Three lecture and two laboratory hours per week. Gen. Ed. Competency met: Scientific Reasoning and Discovery.

Course Student Learning Outcomes

Upon completion, students should be able to: 1. Apply correct terminology in identification and description of anatomical features and locations. 2. Identify major organs and structures of the animal body. 3. Explain the associated nature of organs and structures in the healthy functioning of the animal body. 4. Compare normal and abnormal morphology of the animal body. 5. Compare aspects of the circulatory system, gastrointestinal tract, respiratory system, and reproductive systems of different classifications of animals.

Credits: 4

Program: Animal Science