

BIOL 1604 General Zoology

Catalog Description: An introductory biology course that examines zoological principles related to cellular, tissue, and organ levels of development and genetics. All the animal phyla will be considered along with elements of their ecology and evolution. Three hours lecture and three hours of laboratory weekly.

Prerequisites: None: BIOL 1544 or its equivalent is strongly recommended

Credit hours/Contact hours/Load hours: 4/6/5

Target Audience/Transferability: A survey course intended for science majors and non-science majors alike. In general, BIOL 1604 applies toward the general education requirements for baccalaureate degrees granted by state funded colleges and universities. It is important for students to consult with the transfer institution or college within the university to determine how the course will be accepted.

Student Learning Outcomes: Students completing this course will:

- Apply the scientific method by gathering and analyzing data, drawing conclusions and presenting findings in a written form.
- Demonstrate college-level knowledge of invertebrate and vertebrate phyla classification.
- Relate taxonomy to evolutionary processes and animal structural, developmental and functional characteristics.
- Define specialized terminology utilized in zoology.
- Identify selected external and internal structure; and associated biology and function for different kinds of animals.

Topics:

- Classification
- Survey of the five Kingdoms
- Characteristics of phyla and classes
- Comparative Anatomy & Physiology
- Embryonic development
- Cellular, Tissue, Organ, & Organ System levels of development
- Evolution of various animal phyla related to anatomy & physiology

Forms of Assessment: Lab practical exams are required as part of grading.