NorthWest Arkansas Community College
Division of Science & Mathematics

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.

Prerequisite: 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:

- Gain an understanding of the scientific method and how it is used to acquire information.
- Demonstrate college-level knowledge of the course content.
- Understand how the results of scientific inquiry effect them personally as well as their community and beyond.

Required Text: Mader, Biology, 10th edition, McGraw-Hill, 2010

Recommended Text(s):

- Van De Graaff & Crawley, Photographic Atlas of the Biology Laboratory, 6th Edition, Morton, 2009

Topics:

- Classification & Survey of the five Kingdoms
- Characteristics of phyla and classes including:
  - Protozoa
  - Porifera
  - Cnidara
  - Platyhelminthes
  - Nematoda
  - Mollusca
  - Annelida
  - Arthropoda
  - Echinodermata
  - Chordata
- Comparative Anatomy & Physiology
- Embryonic development
- Cellular, Tissue, Organ, & Organ System levels of development
- Evolution of various animal phyla related to anatomy & physiology

Required Methods of Instruction: Required laboratory activities are to include microscopic examination and dissections.

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