Department:

Biology

Course Description:

This course covers the anatomy and physiology of representative species of each phylum of the animal kingdom. The evolutionary connection between the phyla of the phylogenetic tree is covered with each phylum.

Course Competencies:

Upon completion of the course, the student should be able to:

1. List and describe the characteristics of an animal.
2. List the commonly used taxonomic categories.
3. Explain the system of binomial nomenclature.
4. Give the taxonomic description of the phyla covered in the course.
5. Classify common animals according to phylum and class.
6. Explain the life processes carried out by a representative organism of each phylum covered.
7. Explain the ecological importance of selected members of each taxonomic groups covered in class.

Course Content:

A. Biological Principles and the Science of Zoology
B. Continuity and Evolution of Animal Life
C. Diversity of Animal Life
   1. Classification and Phylogeny of Animals
   2. Protozoan Groups
   3. Sponges and Placozoans
   4. Radiate Animals
   5. Flatworms
   6. Molluscs
   7. Annelids
   8. Arthropods
   9. Crustaceans
   10. Echinoderms
   11. Chordates
   12. Fishes
   13. Amphibians
   14. Reptiles
   15. Birds
   16. Mammals
D. Activity of Life
E. Animals and Their Environments

Learning Assessments:

Course competencies will be assessed by the use of lecture tests, subject area tests, lab assignments, quizzes, and Web site activities.

Instructional Materials:


Guidelines for Requesting Accommodations Based on Documented Disability or Medical Condition

It is the intention of Highland Community College to work toward full compliance with the Americans with Disabilities Act, to make instructional programs accessible to all people, and to provide reasonable accommodations according to the law.

Students should understand that it is their responsibility to self-identify their need(s) for accommodation and that they must provide current, comprehensive diagnosis of a specific disability or medical condition from a qualified professional in order to receive services. Documentation must include specific recommendations for accommodation[s]. Documentation should be provided in a timely manner prior to or early in the semester so that the requested accommodation can be considered and, if warranted, arranged.

In order to begin the process all students must complete the “Disabilities Self-Identification Form” at this link: https://highlandcc.edu/pages/disability-services.

This form can also be accessed at the Highland Community College homepage under Students Services/Student Resources/Disability Service or by contacting the Disabilities Coordinator.