

Louisiana Delta Community College

Academic Affairs Master Syllabus

Course Name: Principles of Biology II Laboratory

Course Number: BIOL 204

Lecture hours: 0 Lab Hours: 1 Credit Hours: 1

Textbook, Author, and Publisher: To be provided by College Campus

Instructor Information: To be provided by College Campus

Class Location: To be provided by College Campus

Course Description:

Laboratory designed to accompany Principles of Biology II lecture (BIOL 202). Laboratory activities will cover the concepts of human evolution and effects on ecology, ecological interactions, natural selection, adaptation, speciation and phylogeny.

Prerequisites: Enrollment in or completion of BIOL 202 with a grade of C or better.

Co-requisites: None

Learning Outcomes:

On completion of this course, the student will be able to:

1. Formulate hypotheses as to why allele frequencies change in populations
2. Describe and discuss theories of evolution and natural selection
3. Illustrate the evidence revealed by the adaptations of organism that support the theories of evolution and natural selection
4. Provide evidence for evolution by comparing anatomical and molecular structures of fossil species
5. Describe the reconstruction of the phylogeny of living organisms and illustrate what role the fossil record plays in this reconstruction
6. Correlate similarities of species that reflect rapid evolution
7. Understand the development of and apply the methods of evolutionary and ecological theories
8. Establish an argument supporting evolution through comparative genomics
9. Relate species diversity as a result of genetics and reproduction
10. Comprehend and apply classification of organisms and phylogenetics
11. Comprehend the nature and reproductive cycle of viruses
12. Compare and contrast viruses, prions, and viroids
13. Discuss prokaryotes, their diversity, complexity, and contributions to the ecosystem
14. Discuss eukaryotes, their diversity, and the categorization of protists
15. Understand the life cycle stages of plants
16. Compare and contrast vascular and nonvascular plants
17. Discuss the role of seed plants, gymnosperms, and angiosperms
18. State the characteristics of fungi, the major groups of fungi, and its function
19. Discuss animal diversity, classification, the transitions in the animal body plan, and the re-evaluation of animal classification
20. Describe noncoelomate invertebrates and their classifications.
21. Describe coelomate invertebrates and their classifications.
22. Discuss the classification of vertebrates
23. Compare and contrast nonvertebrate chordates and vertebrates
24. Describe and discuss the evolution of vertebrates
25. Discuss and describe plant form and function

Assessment Measures: To be provided by College Campus

Library Resource Center:

The Delta Library and Learning Resource Center is committed to providing quality information and learning resources and services, including technology, in supporting the overall mission of Delta Community College and its commitment to lifelong learning.

Special Accommodations:

Louisiana Delta Community College complies with Section 504 of the Rehabilitation Act, as well as the Americans with Disabilities Act. Students with disabilities who attend the Monroe campus may make a request by contacting the Director of Counseling and Disability Services (See College Directory for contact information.) at the beginning of each semester. Reasonable accommodations will be attempted for students with documented disabilities. If an impairment is identified later in the semester, a non-retroactive accommodation plan will be developed. Students at satellite campuses should contact the Coordinator of Student Affairs at their particular campus.

Title IX:

Louisiana Delta Community College is committed to protecting the rights of students, which includes compliance with Title IX requirements. As such, the institution and members of our community will not tolerate the offenses of dating violence, domestic violence, sexual assault, and stalking. Students with Title IX concerns should contact the College's Title IX Coordinator (See College Directory for contact information.) Students are required to complete Sexual Assault Awareness and Prevention Online Training. Access to this online course will be sent out through the Delta email account.

Student Code of Conduct:

Louisiana Delta Community College encourages an environment of academic integrity and mutual respect. Students should read and follow both academic and behavioral expectations identified in the Code of Student Conduct that can be found online at www.ladelta.edu. Students are expected to act with integrity, respect the rights of others, and conduct themselves in a professional manner. The Honor Code prohibits academic misconduct such as cheating, engaging in unauthorized collaboration, and plagiarism. Violations of the Code of Student Conduct may result in disciplinary action as provided in the Code. Incidents are reported through the online Student Conduct system.