

Louisiana Delta Community College

Academic Affairs Master Syllabus

Course Name: Human Anatomy & Physiology I- Lab

Course Number: BIOL 223

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 Human Anatomy & Physiology I Lecture (BIOL 221). Topics covered will include: the human organism, chemical basis of life, cytology, histology, integumentary system, skeletal system, muscular system, nervous system, spinal cord, spinal nerves, brain, cranial nerves, integration of nervous system functions, autonomic nervous system and special senses. Lab models, pictures, computer programs, exercises, skeletons, tissues, slides and many other materials will be used.

Prerequisites: Eligibility for English 101 and Math 110. Enrollment in or completion of BIOL 221 with a grade of C or better.

Co-requisites: None

Learning Outcomes:

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

1. Demonstrate lab safety, distinguish between the 11 body systems, demonstrate the anatomic position, apply directional terms, interpret the three planes of the body, distinguish between the body cavities, differentiate between the four body quadrants and the nine regions
2. Differentiate the parts of the microscope and demonstrate its use.
3. Differentiate cell structures on models and discuss the functions of each structure.
4. Explain the cell cycle and identify the stages on slides.
5. Explain mitosis and identify the stages on slides.
6. Apply diffusion and osmosis to the human body.
7. Compare and contrast the major tissues of the body.
8. Distinguish the layers of the integument, the different exocrine glands, types of hair and types of burns. Also, identify them on slides and models.
9. Distinguish between the bone tissues, features, shapes, composition and types of growth.
10. Distinguish between the different joints and demonstrate how they are used.
11. Relate the parts of the neuromuscular junction to the effects of disease and chemicals.
12. Apply the terms tetany, origin, insertion and action to muscles.
13. Locate the major muscles of the body on charts, pictures, models and the body.
14. Explain the organization of the nervous system, parts of a neuron, neuroglia, meninges, and brain.
15. Differentiate each cranial nerve and explain its functions.
16. Locate the major nerves and the nerve plexus on charts, pictures, models and the body.
17. Compare and contrast the sensory receptors of the body.
18. Demonstrate how the special senses function and identify the cells involved in each.

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.