

# Louisiana Delta Community College

## Academic Affairs Master Syllabus

**Course Name: Pathophysiology**

Course Number: BIOL 228

Lecture hours: 3                      Lab Hours: 0                      Credit Hours: 3

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:**

A detailed study of the mechanisms of disease, alterations in body defenses and the effects on the following body systems: the hematologic system, cardiovascular, respiratory, urinary, gastrointestinal, endocrine, reproductive, nervous, skeletal and integumentary.

**Prerequisites:** A&P I & II (BIOL 221, 222, 223, 224) Lecture and lab with a C or better in each.

**Co-requisites:** None

**Learning Outcomes:**

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

1. Demonstrate knowledge of the cell, tissues, genetic control, alterations in the cell and how they are affected by disease.
2. Explain how the body's defenses are affected by stress, development, damage and all other alterations.
3. Compare and contrast changes in white blood cells, hemostasis, coagulation and red blood cells in relation to diseased states.
4. Explain the structure and function of the cardiovascular system, disorders of blood flow, disorders of blood pressure, disorders of cardiac function, heart failure and shock.
5. Explain the structure and function of the respiratory system, infectious disorders, neoplasia and disorders affecting gas exchange.
6. Discuss control of kidney function, disorders of renal function, renal failure, disorders of fluid and electrolyte balance, disorders of acid base balance and urine elimination.
7. Explain the structure and function of the gastrointestinal system, disorders of function, and body nutrition.
8. Discuss the organization and control of the endocrine system, disorders of endocrine glands and diabetes.
9. Discuss disorders of the male and female reproductive systems and sexually transmitted diseases.
10. Discuss organization and control of the nervous system, disorders of brain function, neuromuscular function, pain and the special senses.
11. Discuss disorders of the skeletal and integumentary systems, alterations of these systems caused by trauma, infection, developmental disorders and metabolic disorders.
12. Discuss the mechanisms of infectious disease, the immune response, inflammation and healing.

**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](http://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.