

Louisiana Delta Community College

Academic Affairs Master Syllabus

Course Name: General Microbiology Lab

Course Number: BIOL 211

Lecture hours: 1 **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:

The goal of this course is to present an integrated approach to experience the essential concepts of Microbiology and develop skills that are fundamental to biological sciences and healthcare-associated professions. The core themes and topics presented in BIOL 210 lecture are integrated within and supplemented by the laboratory component. Through manipulation of micro-organisms this course provides a foundation for practical hands-on work and critical thinking skills rooted in the scientific method and experimental design.

Prerequisites: Enrolled in or completion of BIOL 210 with a C or better

Co-requisites: BIOL 210 lecture should be taken in conjunction with this course

Learning Outcomes:

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

1. Properly prepare and view specimens for examination using microscopy techniques
2. Utilize pure culture and selective techniques to enrich for and isolate micro-organisms
3. Utilize appropriate methods to identify micro-organisms (media-based, phylogeny, biochemical, and enzymatic evaluations)
4. Estimate the number of micro-organisms in a sample (enumeration with direct count and viable plate count methods)
5. Utilize appropriate microbiological and molecular laboratory equipment and methods
6. Practice safe microbiology utilizing aseptic technique with appropriate protective and emergency procedures
7. Document and report experimental protocols, results, and conclusions

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.