Louisiana Delta Community College
Academic Affairs Master Syllabus

Course Name: CALCULUS II
Course Number: MATH 221

Credit Lecture hours: 5 Credit Lab Hours: 0 Credit Hours: 5
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:
This is the second in a three-course sequence. The course continues with additional applications of the integral relating to volume, work, arc length, and surface area. Additional techniques of integration for a wide variety of functions are also developed. Other topics include: parametric equations, polar coordinates, infinite sequences and series, Taylor Polynomials, and vectors.

Prerequisites: MATH 220 with a grade of C or better.
Co-requisites: None

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

1. Apply the techniques of integration to evaluate definite, indefinite, and improper integrals.
2. Apply the techniques of integration to solve problems of area, volume, arc length, work, force, moments, and centers of mass
3. Determine the convergence or divergence of a sequence and series
4. Represent a function using Taylor, Maclaurin, or Power series
5. Analyze the equation for a basic conic section
6. Analyze a curve using parametric equations
7. Convert equations from rectangular to polar form and vice versa.

Assessment Measures: To be provided by the 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.