

# Louisiana Delta Community College

## Academic Affairs Master Syllabus

**Course Name:** Developmental Math II

**Course Number:** MATH 099

**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:**

This developmental gateway math is a college based course designed to quickly enable the student to progress to the next math level which is college based algebra. It is taught at college level because of its intensity and skill level required for quick progress towards preparedness. It is not designed as an elementary level math, nor is it taught at a lower level. This course includes a review of fundamentals, graphs and functions, solving linear equations and inequalities, polynomials, factoring polynomials, simplifying rational and radical expressions, solving equations with rational expressions and radicals, solving quadratic equations, graphing quadratic equations, and solving application problems. Placement based on placement survey, ACT score or successful completion of MATH 095 with a C or higher.

**Prerequisites:** To be eligible to take Math 099, a student must meet one of the following:

1. Score 26 or higher on the Algebra section of the Compass test
2. Score 16 or higher on the Math section of the ACT
3. Successfully complete Math 095 with a grade of "C" or better

**Co-requisites:** None

**Learning Outcomes:**

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

1. Solve and evaluate linear equations/functions and inequalities.
2. Solve application problems.
3. Identify, simplify, and demonstrate knowledge of polynomials.
4. Factor polynomials.
5. Solve basic college algebra equations.
6. Solve linear equations and inequalities.
7. Identify and simplify rational expressions and solve equations with radicals.
8. Graph linear and quadratic equations and functions.
9. Find slope, intercepts, vertex, and other similar significant graphing data and points.
10. Find the equations of lines of linear equations.
11. Identify, simplify, and evaluate functions including domain, range, sum, difference, product, division, inverse, and composite functions.
12. Demonstrate understanding the basics of complex numbers.
13. Demonstrate understanding the basics of exponential and logarithmic functions

**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.