
Physical Address: 132 Old Highway 65 South
Tallulah, LA 71282
Phone: (318) 574-4820
FAX: (318) 574-1868

MASTER SYLLABUS

DVMA 0091 DEVELOPMENTAL MATHEMATICS

COURSE DESCRIPTION:

This applied mathematics course is designed for students who need introductory algebraic concepts. The topics covered in this course are Rational Numbers, Variable Expressions, Solving Equations, Polynomials, Factoring, and Rational Expressions.

PREREQUISITES: A satisfactory grade in DVMA 0090 or ACT, COMPASS, or ASSET Placement Test.

COURSE OBJECTIVES:

The purpose of this applied mathematics course is to provide instruction that will enable students to acquire a better understanding of introductory algebraic concepts, thus providing a foundation for the next higher-level mathematics course or proficiency in career preparation courses

SPECIFIC COMPETENCIES:

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

1. Use opposites and absolute value.
2. Evaluate expressions that contain the absolute value symbol.
3. Add, subtract, multiply and divide integers.
4. Solve integer problems.
5. Write a rational number in simplest form and as a decimal.
6. Evaluate exponential expressions.
7. Add, subtract, multiply and divide exponential expressions with the same base.
8. Evaluate variable expressions.
9. Use the order of operations agreement to simplify expressions.
10. Simplify a variable expression using the addition, multiplication, & distributive properties

MID POINT

11. Translate a verbal expression into a variable expression, given the variable.
12. Translate a verbal expression into a variable expression and then simplify.
13. Determine whether a given number is a solution of an equation.
14. Solve a two-step linear equation.
15. Solve an equation containing parentheses.
16. Translate a sentence into an equation and solve.
17. Solve equations involving angles formed by intersecting lines.
18. Use the Pythagorean Theorem to solve problems.
19. Solve perimeter problems.
20. Solve problems involving angles formed by intersecting lines.
21. Add, subtract, multiply, divide polynomials.
22. Simplify powers of monomials.
23. Multiply a polynomial by a monomial.
24. Multiply two binomials.
25. Multiply binomials that have special products.
26. Divide monomials.
27. Divide a polynomial by a monomial