COLLEGE PREPARATION, MATH SKILLS 3

Certificate of Completion

Program Code: 3P38529

This certificate program will prepare students to improve their foundational level mathematical skills in order to ensure a successful transition to credit-bearing math courses. The program offers an accelerated course ABED 120 College Prep Basic Math & Pre-Algebra (Accelerated) College Prep, Basic Math & Pre#Algebra which combines fundamental elements of Basic Math and Pre#Algebra to reinforce the learning objectives such as performing all general math, algebraic and geometric operations at a proficient level. In addition, the program offers an accelerated College Prep Pre and Elementary Algebra course which reviews the pre-algebraic math concepts and provides students with strong knowledge of linear equations and inequalities, quadratic equations, rational equations, and application problems at a proficient level to ensure student readiness for credit-bearing courses.

Code	Title	Hours
Required Core Courses (72 Hours)		
ABED 110	College Prep - Basic Math	72
ABED 117	College Prep Pre and Elementary Algebra (Accelerated)	72
Total Hours		**144**

Plan of Study

First Year

Semester 1	Hours	Semester 2	Hours
ABED 110	72	ABED 117	72
	72		**72**

Total Hours 144

List of Courses

ABED 110   **72 Hours**
College Prep - Basic Math
Advisory: Basic computer navigation skills.
This noncredit course is intended for students who desire to build or strengthen foundational level mathematical skills such as the addition, subtraction, multiplication, and division of whole numbers, fractions, decimals, percents, and integers. These concepts are applied to ratios, exponents, measurements, proportions, statistics, metric conversions, and geometric shapes. In addition, these operations, along with basic number theory, are used to solve real world problems. All work will be done without a calculator. *(Apportionment)*

ABED 117   **72 Hours**
College Prep Pre and Elementary Algebra (Accelerated)
Advisory: Knowledge of basic math and algebraic skills and order of operations to solve problems involving integers, fractions, and decimals.
An accelerated course combining content from ABED 115 College Prep Pre-Algebra and ABED 116 College Prep Elementary Algebra. This noncredit course is a review of the Pre and Elementary Algebra concepts. Topics include: integers and algebraic expressions, operations on integers, mixed numbers and decimals, ratio, fractions, proportion and percentages. Introduction of polynomials, properties of exponents, factoring polynomials, simplifying and evaluating expressions, solving linear equations and inequalities, graphing linear equations, factoring polynomials, rational expressions, quadratic equation, roots and radicals,and informal geometry. *(Apportionment)*