Course Information Form (CIF)

Course Code: GED 020

Course Title: ABE Math Instruction

Department: Adult Education and Workforce Development
Effective Date: Summer 2026
PCS Code: 1.7 - Adult Basic Skills
CIP Code: 32.0104
Repeatability: 3

Credit Hours

Catalog Notation: 1-0-1 through 12-0-12
Credit Hour Distribution:

Lecture: 12	Lab: 0	Clinical: 0	**Total: 12**

General Course Information

Catalog Description

This course is for ABE learners who are intending to obtain their HSE but wish for a primary focus on math preparation in regard to HSE testing.

General Course Objectives

This course will provide a core of basic math skills in preparation for completion of the HSE.

Minimum Placement Levels

English	Reading	Math
None	None	None

Prerequisites

None

Methods of Evaluation

Attendance, completion of assignments, class participation, performance during class role plays and practices, pre- and post-CASAS and Official GED Practice Tests.

Instructional Materials and Additional Supplies

None.

Course Content

General Learning Outcomes (GLOs)

- Communication: Students will demonstrate the ability to read, write, listen, and speak effectively.
- Critical Thinking and Information Literacy: Students will demonstrate the ability to evaluate perspectives, evidence, and implications, and to locate, assess, and use information effectively.
- Reasoning and Inquiry: Students will demonstrate the ability to solve problems using deductive reasoning and logic, quantitative reasoning, or the scientific method.

Course Segments and Student Learning Outcomes

1 credit hour option

Meet requirements from previous credit hour group plus:

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Operations and Algebraic Thinking	1. Use the four operations with whole numbers. 2. Familiarize self with factors and multiples. 3. Write and interpret numerical expressions.	15	0	0

2 credit hour option

Meet requirements from previous credit hour group plus:

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Number and Operations	1. Extend understanding of fraction equivalence and ordering. 2. Build fractions from unit fractions. 3. Multiply and divide fractions.	15	0	0

3 credit hour option

Meet requirements from previous credit hour group plus:

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Measurement and Data	1. Perform problem solving involving measurement conversions. 2. Represent and interpret data. 3. Demonstrate understanding of angles. 4. Perform conversion of measurements in a given system. 5. Understand concepts of volume in relation to multiplication and to addition.	15	0	0

4 credit hour option

Meet requirements from previous credit hour group plus:

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Geometry, Ratios, and Proportional Relationships	1. Draw and identify lines and angles and classify shapes by their properties. 2. Graph points in order to solve real-world and mathematical problems. 3. Understand ratio concepts and use ratio reasoning to problem-solve. 4. Analyze proportional relationships in order to solve real-world problems.	15	0	0

5 credit hour option

Meet requirements from previous credit hour group plus:

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
The Number System	1. Apply multiplication and division to fractions. 2. Work with multi-digit numbers to find common factors and multiples.	15	0	0

6 credit hour option

Meet requirements from previous credit hour group plus:

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Expressions and Equations	1. Understand the core differences between an expression and equation and how to identify and solve for each of them.	15	0	0

7 credit hour option

Meet requirements from previous credit hour group plus:

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Functions	1. Understand functions as a relationship between two variables and identify how they relate to each other.	15	0	0

8 credit hour option

Meet requirements from previous credit hour group plus:

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Geometry I	1. Understand that geometry is the study of shapes of objects and apply the knowledge needed to obtain sizes, shapes, angles, and dimensions of those objects.	15	0	0

9 credit hour option

Meet requirements from previous credit hour group plus:

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Statistics and Probability	1. Understand what statistics and probability are. 2. Apply formulas to solve solutions in regard to how often something is likely to occur.	15	0	0

10 credit hour option

Meet requirements from previous credit hour group plus:

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Algebra	1. Learn and understand the use of symbols within math formulas and how to solve and manipulate these symbols within formulas.	15	0	0

11 credit hour option

Meet requirements from previous credit hour group plus:

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Algebra II	1. Expand understanding of algebra with complex functions such as exponential and logarithmic equations.	15	0	0

12 credit hour option

Meet requirements from previous credit hour group plus:

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Analysis	1. Analyze and identify the math concepts presented as well as apply the necessary functions in order to solve the equations.	15	0	0

Total Contact Hours

Lecture Hours	Lab Hours	Clinical Hours
180	0	0