DEPARTMENT: Basic & Transitional Studies
CURRICULUM: Adult Basic Education
COURSE TITLE: ABE 4 Math
COURSE NUMBER: ABE 041
TYPE OF COURSE: Adult Basic Education
COURSE LENGTH: Variable 1 - 11 weeks
CREDIT HOURS: Variable 1 - 10
LECTURE HOURS: Variable 11 - 110
LAB HOURS: 0
CLASS SIZE: 25
PREREQUISITES: ABE placement test and/or CASAS 130 with 6th to 8th grade level
REQUIRED TEXT: None

COURSE DESCRIPTION:

The ABE 4 Math course is designed to provide learners the opportunity to understand and apply the necessary math concepts needed for estimating, computing, and solving basic word problems with an emphasis on decimals. This course will also provide information to students about the services and resources available on campus, help learners identify their current abilities and styles of learning, help learners identify any barriers, learning deficiencies or skill gaps with strategies and / or recommendations for improvement, help learners set long and short term goals while identifying personal, educational and employment interests and the skills needed to obtain those goals, and help learners develop a personal learning / goal plan.
LEARNING OUTCOMES ADDRESSED:

1. Communication
   - Read and listen actively to learn and communicate.
   - Speak and write effectively for personal, academic and career purposes.

2. Computation
   - Use arithmetic and other basic mathematical operations as required by program of study.
   - Apply quantitative skills for personal, academic and career purposes.

3. Human Relations
   - Use social interactive skills to work in groups effectively.
   - Recognize the diversity of cultural influences and values.

4. Critical Thinking and Problem Solving
   - Think critically in evaluating and applying information, solving problems and making decisions.

5. Technology
   - Select and use appropriate technological tools for personal, academic, and career tasks.

6. Personal Responsibility
   - Be motivated and able to continue learning and adapt to change
   - Value one’s own skills, abilities, ideas, and art
   - Take pride in one’s work
   - Manage personal health and safety.
   - Be aware of civic and environmental issues.

7. Information Literacy
   - Access and evaluate information from a variety of sources and contexts, including technology.
   - Use information to achieve personal, academic and career goals and to participate in a democratic society.

COURSE OBJECTIVES:

1. Identify place value and read/write decimals.
2. Compare and round decimals.
3. Estimate answers to decimal computation problems.
4. Add, subtract, multiply, and divide decimals.
5. Identify key words and determine which operations are required to solve decimal word problems.
6. Read, write, and solve multi-step word problems with decimals.
7. Find the perimeter, area, and volume for decimals using basic formulas.
8. Interpret, analyze, synthesize, and summarize data from charts, graphs and tables to solve decimal problems.
9. Understand GED/COMPASS Math test content and format that require multiple steps and skills.
10. Use computer software and appropriate technology.
TOPICAL OUTLINE:

I. Place Value

II. Comparing and Rounding

III. Estimation and Basic Computation

IV. Basic Word Problems

V. Basic Algebra and Geometry/Measurement

VI. Basic Data Analysis

VII. Technological Proficiency

REVISED BY: (Jon Nachman & Wairimu Kiambuthi)
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