

**COURSE OUTLINE**

**Revision: (Jon Nachman & Wairimu Kiambuthi) July 28, 2009**

DEPARTMENT:	<b>Basic &amp; Transitional Studies</b>
CURRICULUM:	<b>Adult Basic Education</b>
COURSE TITLE:	<b>ABE 3 Math</b>
COURSE NUMBER:	<b>ABE 031</b>
TYPE OF COURSE:	<b>Adult Basic Education</b>
COURSE LENGTH:	<b>Variable 1 - 11 weeks</b>
CREDIT HOURS:	<b>Variable 1 - 10</b>
LECTURE HOURS:	<b>Variable 11 - 110</b>
LAB HOURS:	<b>0</b>
CLASS SIZE:	<b>25</b>
PREREQUISITES:	<b>ABE placement test and/or CASAS 130 with 4<sup>th</sup> to 5th grade level</b>
REQUIRED TEXT:	<b>None</b>

**COURSE DESCRIPTION:**

**The ABE 3 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 whole numbers.** 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 whole numbers.
2. Compare and round whole numbers.
3. Estimate answers to whole number computation problems.
4. Add, subtract, multiply, and divide whole numbers.
5. Identify key words and determine which operations are required to solve whole number word problems.
6. Read, write, and solve multi-step word problems with whole numbers.
7. Find the perimeter, area, and volume for whole numbers 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.

**ABE 031 Math**  
**July 28, 2009**

**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)**  
**DATE: March 1, 2010**