

COURSE OUTLINE

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

DEPARTMENT:	Basic & Transitional Studies
CURRICULUM:	General Educational Development Preparation
COURSE TITLE:	GED Math Preparation
COURSE NUMBER:	GED 051
TYPE OF COURSE:	GED Prep
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 9th grade level or above
REQUIRED TEXT:	None

COURSE DESCRIPTION:

The GED Math preparation course is designed to provide learners the opportunity to understand and apply the necessary math concepts needed for estimating, computing, and solving word problems that are needed in preparing to take the GED Math test. There will be an emphasis on data analysis, geometry, and algebra. Learners will learn test-taking skills, understand the official GED Math test format, and complete practice GED Math tests. 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.

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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. Develop and apply critical reading, math, and thinking skills.
2. Learn and apply test-taking skills.
3. Understand and apply mathematical computation to solve problems.
4. Use mathematical formulas to acquire information and solve problems.
5. Interpret and summarize data on charts, graphs and tables to solve problems.
6. Use estimation to plan and check for accuracy.
7. Understand GED Math test content and format that require multiple steps and skills.
8. Use computer software, word processing and appropriate technology.

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TOPICAL OUTLINE:

- I. Review of Arithmetic**
 - Whole numbers
 - Fractions
 - Decimals
 - Percents
 - Ratio and proportion
- II. Geometry**
- III. Measurement**
- IV. Algebra**
- V. Tables, Graphs, and Data Analysis**
- VI. Technological Proficiency**

REVISED BY: (Jon Nachman & Wairimu Kiambuthi)
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