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**SOUTH SEATTLE COMMUNITY COLLEGE**

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**Basic & Transitional Studies****COURSE OUTLINE****Revision: (Jon Nachman & Wairimu Kiambuthi) July 28, 2009**

DEPARTMENT:	<b>Basic &amp; Transitional Studies</b>
CURRICULUM:	<b>Post-Secondary Preparation</b>
COURSE TITLE:	<b>COMPASS Math Prep</b>
COURSE NUMBER:	<b>ABE 061</b>
TYPE OF COURSE:	<b>Adult Secondary 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 9<sup>th</sup> grade level or above</b>
REQUIRED TEXT:	<b>None</b>

**COURSE DESCRIPTION:**

**The COMPASS Prep Math course is designed to provide learners the opportunity to understand and apply the necessary math concepts and applications needed in preparing to take the math portion of the COMPASS test.** It will focus on orientation to the program along with the services and resources available; help learners identify their current abilities and styles of learning and identify any barriers, learning deficiencies or skill gaps with strategies and / or recommendations for improvement; set long and short-term goals while identifying personal, educational and employment interests and the skills needed to obtain those goals; and develop a personal learning / goal plan. Learners will review test taking skills, understand the COMPASS test format, and complete practice COMPASS tests.

**ABE 061 COMPASS Math Prep**  
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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.

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**COURSE OBJECTIVES:**

1. Continue to develop and apply critical thinking skills.
2. Review and practice test taking skills.
3. Understand and apply mathematical computation to solve problems.
4. Use mathematical formulas to acquire information and solve problem.
5. Interpret and summarize data on charts, graphs and tables to solve problems.
6. Use estimation to plan and check for accuracy.
7. Use computer software, word processing and appropriate technology.
8. Successfully complete the COMPASS math test.

**TOPICAL OUTLINE:**

- I. Review of Arithmetic**
  - Whole numbers
  - Fractions
  - Decimals
  - Percents
  - Ratio and proportion
- II. Measurement & Data Analysis**
- III. Algebraic expressions and simple equations**
- IV. Advanced mathematical concepts such as signed numbers, absolute value, scientific notation, monomials, and factoring**
- V. Technological Proficiency**

**REVISED BY: (Jon Nachman & Wairimu Kiambuthi)**  
**DATE: March 1, 2010**