SOUTHERN STATE COMMUNITY COLLEGE

I. COURSE TITLE: Basic Math

COURSE NUMBER: 101
CATALOG PREFIX: MATH

II. PREREQUISITES:

None

III. CREDIT HOURS: 3
LECTURE HOURS: 3
LABORATORY HOURS: 
OBSERVATION HOURS:

IV. COURSE DESCRIPTION:

This course is designed to increase skills in arithmetic and/or introductory algebra. This course may not be used to satisfy the math requirements in any program and counts only as an elective credit for graduation. Grading on S-U basis.

V. ADOPTED TEXT (S):

Basic College Mathematics
by: Jeffrey Slater/John Tobey
Prentice Hall
4th edition

VI. COURSE OBJECTIVES: (GENERAL)

At the completion of this course the student will:

- be able to simplify numerical expressions using powers.
- be able to perform the operations of addition, subtraction, multiplication, and division of fractions.
- be able to perform the operations of addition, subtraction, multiplication, and division of decimal numbers.
- be able to express numbers as a fraction, decimal, and percent.
- be able to solve problems using whole numbers, fractions, decimals, and percent.
COURSE OBJECTIVES  cont’d.

- be able to apply math skills to solutions of word problems.
- be able to write ratios and solve problems using proportions.
- be able to simplify numerical expressions using negative numbers and to correctly apply order of operations.
- be able to substitute into formulas and evaluate the formulas.
- be able to solve first degree equations with one variable.
- be able to solve applications using algebraic expressions.
- be able to use calculators appropriate to the problems solved.
- *be able to work with metric units and covert between metric and other units.

*Students in the health related fields should master this objective.

VII. GRADING:

Grading will follow policy in catalog on a S(satisfactory) or U(unsatisfactory) basis. A satisfactory grade will indicate mastery to the 80% level on all general course objectives. The course may also have an attendance requirement.

VIII. COURSE OUTLINE:

Required Chapters:
  Chapter 2: Fractions  
  Chapter 3: Decimals  
  Chapter 4: Ratio and Proportion  
  Chapter 5: Percent  
    5.5 Commission, Percent of Increase, Interest Rates  
  Chapter 9: Signed Numbers  
  Chapter 10: Introduction to Algebra

Optional Chapters:
  Chapter 6: Measurement  
  Chapter 7: Geometry  
  Chapter 8: Statistics

IX. OTHER REQUIRED BOOKS AND MATERIALS:

Key to Algebra books are available as supplement.
X. **EVALUATION:**

Tests will be given at the completion of each skill unit. Mastery level of 80% on each skill unit is required for grade of S (satisfactory). An exam will be given at the end of the course to measure progress.

XI. **SPECIFIC MANAGEMENT REQUIREMENTS:**

Assignments will be evaluated according to instructor directives.