Alexandria Technical and Community College

MATH 0000: Preparatory Math for Health Sciences

A. COURSE DESCRIPTION

Credits: 0
Lecture Hours/Week: 2
Lab Hours/Week: *.*
OJT Hours/Week: *.*
Prerequisites: None
Corequisites: None
MnTC Goals: None

This course prepares students to complete the calculations necessary in chemistry and laboratory courses. Topics include decimal numbers, fractions, ratios and proportions, dilution problems, percent and percentage problems, English/metric conversions, calculating areas and volumes, and equation solving. Learners must pass this course with a grade of "CR" to advance to college-level courses.

B. COURSE EFFECTIVE DATES: 05/19/2014 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Convert between fraction form and decimal form.
2. Evaluate expressions involving fractions, decimals, and whole numbers.
3. Solve percentage problems using the proportion method.
4. Convert between various units of measurement.
5. Solve problems involving solutions and concentrations.
6. Evaluate expressions involving signed numbers.
7. Solve linear algebraic equations.

D. LEARNING OUTCOMES (General)

1. The learner will be able to solve problems that pertain to decimals, fractions and percentage applications.
2. The learner will know how to convert units of English/metric measurement, calculate units of area and volumes using geometric formulas, and utilize basic algebra to solve equations.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted