

COURSE CONTENT AND SCOPE - Lab: Outline the topics included in the lecture portion of the course	Hours Per Topic	COURSE OBJECTIVES Ę Lab: Upon successful completion of this course, the student _____
Foundations of algebra: Number sets and the structure of algebra, fractions, and adding and subtracting real numbers. Properties of real numbers, multiplying and dividing real numbers, exponents, roots, and order of operations. Translating word phrases to expressions and evaluating and rewriting expressions.	3	Understand the foundations of algebra, apply the basic operations of arithmetic to real numbers using the order of operations, translate word phrases into expressions, evaluate, and rewrite expressions.
Solving linear equations and inequalities: Equations, formulas, and the problem-solving process. The addition principle, the multiplication principle, and applying the principles to formulas. Translating word sentences to equations and solving linear inequalities.	4	Solve linear equations and inequalities using the addition and multiplication principles, apply those principles to formulas, translate word sentences to equations.
Problem solving: Ratios and proportions, percents, problems with two or more unknowns, rates, investment, and mixture.	3	Solve problems involving ratios and proportions, percents, two unknowns, rates, investment, and mixture.