

I. COURSE INFORMATION

- A. Mathematics 015 Elementary Algebra
- B. 3 credit hours
- C. Lial, Hornsby, and McGinnis. *Beginning Algebra*. 13th ed. New Jersey: Pearson, 2019
- D. Prerequisites: None

II. COURSE DESCRIPTION

This course provides the student with an understanding of elementary algebra, and will cover topics such as operations with signed numbers, factoring, and solving linear and quadratic equations. This course prepares the student for MAT 020 Intermediate Algebra. MAT 015 does not apply toward Mathematics graduation requirements.

III. LEARNING OUTCOMES

- A. Arithmetic and Algebra manipulation
- B. Equations and inequalities
- C. Analysis of equations and graphs
- D. Graphs on a coordinate plane

IV. MAJOR CONTENT AREAS

- A. The real number system
- B. Linear equations and inequalities, one variable and applications
- C. Linear equations and inequalities, two variables
- D. Exponent's and polynomials
- E. Factoring
- F. Rational expressions
- G. Roots and radicals

V. ASSIGNMENTS (may include but are not limited to)

- A. Reading assignments
- B. Homework problems
- C. Quizzes and exams

VI. EVALUATION METHODS (may include but are not limited to)

- A. Attendance and participation
- B. Homework problems
- C. Assignments
- D. Quizzes and exams
- E. Comprehensive final