

I. COURSE INFORMATION

- A. Mathematics 020 Intermediate Algebra
- B. 3 credit hours
- C. Lial, Miller, Hornsby, & McGinnis. *Intermediate Algebra*. 12th ed. New Jersey: Pearson, 2016
- D. Prerequisites: ACT math score 18-19; or COMPASS Algebra score 31-49; or ASSET Elementary Algebra score 39-44; or Accuplacer Elementary Algebra score 60-80; or completion of MAT 015 with a C grade or above

II. COURSE DESCRIPTION

This course covers basic topics in algebra, including the solution of linear and quadratic equations, factoring, graphing, inequalities, rational and irrational numbers and functions. MAT 020 will not apply toward Mathematics graduation requirements.

III. LEARNING OUTCOMES

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

IV. MAJOR CONTENT AREAS

- A. Linear equations, inequalities and applications
- B. Graphs, linear equations and functions
- C. Systems of linear equations
- D. Exponents, polynomials and polynomial functions
- E. Factoring
- F. Rational expressions and functions
- G. Roots, radicals, and root functions
- H. Quadratic equations

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