

**I. COURSE INFORMATION**

- A. Mathematics 120 Pre-Calculus
- B. 3 credit hours
- C. Cohen, David, Theodore Lee, and David Sklar. *Precalculus, Enhanced Edition*. 7<sup>th</sup> ed. Kentucky: Cengage, 2016
- D. Prerequisites: MAT 105 College Algebra with a C grade or above or consent of instructor

**II. COURSE DESCRIPTION**

This course includes the study of algebraic, transcendental, and trigonometric functions. The course also includes a general background in analytic geometry and linear algebra.

**III. LEARNING OUTCOMES**

- A. Solve equations and inequalities
- B. Work with linear and quadratic functions
- C. Manipulate algebraic expressions
- D. Graph functions
- E. Work with polynomial and exponential functions
- F. Recognize, manipulate and graph equations of conic sections and apply

**IV. MAJOR CONTENT AREAS**

- A. Fundamentals
- B. Equations and inequalities
- C. Functions
- D. Polynomial and rational functions
- E. Exponential and logarithmic functions
- F. Conic sections

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

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

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

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