

Course Number: MATH 1111

Course Title: College Algebra

Hours Credit: 3 hours

Prerequisites: None

Courses Description: This course is a functional approach to algebra that incorporates the use of technology. Emphasis will be placed on the study of functions, and their graphs, inequalities, and linear, quadratic, piece-wise defined, polynomial, rational, exponential and logarithmic functions. Appropriate applications will be included.

Text: *College Algebra by Lial, Hornsby and Schneider (Addison/Wesley).*

NOTE: Students can either use the 10th edition available from the publisher OR the West Georgia edition available from the bookstore.

Learning Outcomes: Students should be able to demonstrate:

1. An understanding of the equations of circles and lines
2. An understanding of functions and how to graph functions
3. An understanding of operations on functions including function composition
4. An understanding of polynomial graphs, including intercepts and end-behavior
5. An understanding of how to find the zeros of a polynomial and how to factor polynomials
6. An understanding of inverse functions and how to find them graphically and algebraically
7. An understanding of the properties of exponential and logarithmic equations
8. An understanding of how to solve exponential and logarithmic equations
9. An understanding of how to solve a system of equations

Grading Method: To be determined by instructor. The final exam should be given during the time as scheduled by the Registrar's Office and should count between 20% and 35% of the overall grade.