**Course Title:** College Algebra  Credit: 3

**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:** Precalculus, 5e, by Robert Blitzer (Pearson/Prentice Hall)

**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

**Attendance:** Class attendance is mandatory. Students will lose extra points when not in class. Missed tests and quizzes result in zeros.

**Grading:** Tests are 100 pts each, Assignments 10-20 pts, Quizzes 5-15 pts, and the Final Exam is 25% of grade. Points earned over points possible calculates the Grade. Grades are updated often. CourseDen will be used as a primary management tool.

**Classroom Conduct:** Students are expected to be respectful and show good character. Students disturbing or interfering with instruction will be asked to leave. Electronic devices are to be silence and used only for class activities.

**Help Available:** In addition to getting help during office hours students are encouraged to see the SI leader, visit the Math Tutor Center and make an appointment with the Success Center.

**Final:** The final exam will be conducted in the classroom on December 8th. Graphing calculators TI-83 and 84 are required and will be allowed on exams, as will scientific calculators. The TI-89 and similar calculators will not be allowed.
Other Course Policies: Other course policies, including information regarding students with disabilities and the UWG Honor Code can be found at either of the following websites. You should refer to these at the beginning of each semester.