MATH 1111 Section 16 – College Algebra

**Hours Credit:** 3 hours  
**Prerequisites:** None

**COURSE INSTRUCTOR**
Instructor: Mr. Kyle Carter  
Office: Boyd 104 - D  
Email: kylec@westga.edu  
Phone: 678-839-5134

**OFFICE HOURS:**
Boyd 104 - D: Tuesday 12:00 pm – 2:00 pm  
Thursday 12:00 pm – 2:00 pm

Online in CourseDen: Wednesday 1:00 pm - 2:00 pm  
or by appointment

**REQUIRED COURSE MATERIALS**

**TEXT AND OTHER REQUIRED COURSE MATERIALS.**

TEXT: *College Algebra and Trigonometry, Abramson, Openstax.* Student can download for free at [https://openstax.org/details/books/algebra-and-trigonometry](https://openstax.org/details/books/algebra-and-trigonometry). Students should go to “Download a PDF” and download the High Resolution version.

**CALCULATOR:** A graphing calculator (TI-84 or equivalent) is required for this course.

**COURSE 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.

**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 equation

**COURSE ASSESSMENT**
Students’ mastery of course learning outcomes will be assessed using the following methods:

**Participation/Daily Assignments:** This portion of your grade will be assessed by your attendance and participation in class activities. Some days, we will have short activities that will act as daily assignments to help practice the concepts we have been learning.

**Homework:** This portion of your grade is based on your completion of homework that covers the material before each test. Homework assignments are a great place to look for test questions. There will be four homework assignments through the semester, and you are free to work with classmates on homework assignments. Homework assignments may be turned in late, but late work will be penalized 10 points per weekday that they are late. The homework assignments will be provided through CourseDen.

**Tests:** There will be 4 Tests (the first will be take-home while the remaining 3 will be in class). We will review during the class period before each test as much material as possible what will be on the test. Tests cannot be taken late, so if you see that you are going to miss a test, please let me know ahead of time so that we can schedule a time to take it before the actual test is administered to the class.
Test 1 – September 10 - 14 (Take-Home Test)
Test 2 – Tuesday, October 2nd (In Class)
Test 3 – Thursday, November 1st (In Class)
Test 4 – Tuesday, December 4th (In Class)

Final Exam: There will be one Final Exam at the end of the semester, and it will be cumulative. We will review before the Final as much as time allows. The final for this class will be **Thursday, Dec. 13, 2:00-4:00 pm (In Class)**. The Final Exam is made by the Math Department, but the questions will be taken from this practice final: [https://drive.google.com/file/d/0B3kg9OwR8MYT1TDZsdFdxdzYvS1k/view](https://drive.google.com/file/d/0B3kg9OwR8MYT1TDZsdFdxdzYvS1k/view) The practice final is 80 questions while the actual final will be only 40 questions (taken from the 80 in terms of question types)

(The last day to withdraw from this class with a grade of W is October 8th)

**GRADE BREAKDOWN**

Daily Assignments/Participation: 10%
Homework: 15%
Tests: 50% (12.5% each)
Final: 25%

**ASSESSMENT GRADING:**

Grading Scale:
90% - 100%: A
80% - 89%: B
70% - 79%: C
60% - 69%: D
<60%: F

**COURSE POLICIES AND INFORMATION**

University Policies and Academic Support
For important policy information, i.e., the UWG Honor Code, Email, and Credit Hour policies, as well as information on Academic Support and Online Courses, please review the information found in the [Common Language for Course Syllabi documentation](http://www.westga.edu/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf).

Academic Honesty
While some parts of this course may be completed in groups (such as the Homeworks), the Tests are meant to be completed alone, without the help of any other person. Any serious form of academic dishonesty will be reported to the University. Definitions of academic dishonesty are defined in the student handbook: [www.westga.edu/handbook](http://www.westga.edu/handbook)

Disabilities Act/Accessibility for the Course
If you are a student whom is disabled as defined under the Americans with Disabilities Act and require assistance or support services, please notify me and provide me with a copy of your packet from Student Services. The university will provide you with resources for any audio/visual needs that you may have with the learning management system or course content. Please contact UWG Accessibility Services for more information.

Student Conduct
Students are expected to abide by the guidelines detailed in the university catalog. Respect and courtesy are required of all students while in the classroom/discussion board.