Instructor: Mr. Robert Burnham
Email: rburnham@westga.edu   Classroom: 186 Newnan Center
Office: 116 Newnan Center   Class time: MW 9 am – 10:15 am
Phone: Office Hours: MW: 3:30 – 6:00 pm,
                                                        Other Times by Appointment

Prerequisite: None
Required Text: *College Algebra and Trigonometry, Abramson, Openstax.* Student can download for free at https://openstax.org/details/books/algebra-and-trigonometry.   Students should go to "Download a PDF" and download the High Resolution version.

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. Express relationships using the concept of a function and use verbal, numerical, graphical and symbolic means to analyze a function.
2. Model situations from a variety of settings by using polynomial, exponential and logarithmic functions.
3. Manipulate mathematical information, concepts, and thoughts in verbal, numeric, graphical and symbolic form while solving a variety of problems which involve polynomial, exponential or logarithmic functions.
4. Apply a variety of problem-solving strategies, including verbal, algebraic, numerical, and graphical techniques, to solve multiple-step problems involving polynomial, exponential, logarithmic equations and inequalities and systems of linear equations.
5. Shift among the verbal, numeric, graphical and symbolic modes in order to analyze functions.
6. Use appropriate technology in the evaluation, analysis and synthesis of information in problem-solving situations.

In addition, since this course satisfies Area A2 of the Core, upon successful completion of the course:

- Students demonstrate a strong foundation in college-level mathematical concepts and principles.

- Students demonstrate the ability to apply symbolic representations to model and solve real-world problems.

EXPECTATIONS / REQUIREMENTS

Grade :
Your grade will consist of four Tests (12.5% each), Homework/Quiz Average (25%), and a cumulative Final Exam (25%).

ASSESSMENT GRADING:

Course Grade = .25*(Hw/Quiz Average)+.125*Test 1 + .125*Test 2 +.125*Test 3 +.125* Test 4+0.25*(Final Exam)

When computing your Final Course Grade I will replace your lowest test grade with your Final Exam Grade, if the Final Exam Grade is higher than your lowest test grade.

In the event of academic dishonesty the student forfeits this benefit.

Grading Scale :

Letter Grade	A	B	C	D	F
Grading Scale	90% to 100%	80% to 89%	70% to 79%	60% to 69%	0% to 59%

Calculator Policy: Graphing calculators equivalent to the TI 83, 84, 85, and 86, as well as scientific calculators are allowed for use in this course. The TI-89 and other equivalent calculators will not be allowed. **The instructor reserves the right to when you are allowed to use Calculators on in class graded assignments.**

Lecture Notes: Lecture notes play a big role in this course. I have posted all of my lecture notes on CourseDen and I do expect you to print them off and bring them to class. Students who do not do this will have a difficult time keeping up in the class.

Homework:
Homework assignments will be completed on CourseDen using MyOpenMath. You will have assignments due on CourseDen on almost a weekly basis. Do not wait until the due date to complete the assignments – if CourseDen is not available, you will get a 0 for those assignments.

Quizzes :
Quizzes will be based on homework assignments as well as information discussed during class. Quizzes maybe given in class or online on CourseDen. I will announce (in class) the exact date of quizzes at least one class period in advance. Expect there to be a Quiz on almost a weekly basis.

Tests/Final:
There will be 4 Tests and a comprehensive final exam. I will announce (in class) the exact dates for each test at least one week prior to said test. All 4 tests and the final exam will be completed in class on paper.

Final Exam: The Final Exam will be given on **Wednesday, Dec 11, 8:00 - 10:00 am**

Make-up Policy:
In the event of a student missing a Test for any reason, I will allow the final exam grade to replace that missing test grade. There will be no make up quizzes.

Withdrawal Policy: The last day you can withdraw from this course and receive a "W" is Wednesday **Oct 9th, 2019.**

Attendance: There is no attendance policy in this class. But you must come to class to success. Please do not arrive late or leave early.

Questions about grading: Questions about grading must be asked within one week of the graded works return.

University Closures: If the University is closed due to weather or for any other reason, any test, quiz, or graded assignment that may have been scheduled for that date will be administered on the next available class date. If an assignment is due that day, it will be due the next class.

UWG EMAIL POLICY: University of West Georgia students are provided a MyUWG e-mail account. The University considers this account to be an official means of communication between the University and the student. The purpose of the official use of the student e-mail account is to provide an effective means of communicating important university related information to UWG students in a timely manner. It is the student's responsibility to check his or her email.

CourseDen: Course materials will be posted on CourseDen. Please check CourseDen often for updates. You may log in to CourseDen at www.westga.edu or http://webct.westga.edu. If you are having problems logging into CourseDen, please go to http://uwgonline.westga.edu/students.php or call 678-839-6248

Accessibility Services:
Students with a documented disability may work with UWG Accessibility Services to receive essential services specific to their disability. All entitlements to accommodations are based on documentation and USG Board of Regents standards. If you need course adaptations or accommodations because of a disability or chronic illness, or if you need to make special arrangements in case the building must be evacuated, you should notify me in writing and provide a copy of your Student Accommodations Report (SAR), which is available only from Accessibility Services. I cannot offer accommodations without timely receipt of the SAR; further, no retroactive accommodations will be given. For more information, please contact Accessibility Services.

Math Tutoring Center (MTC): The Math Tutoring Center is located in 205 Boyd (at the Carrollton campus) is available for any student who needs help. No appointments are necessary for the MTC. There are computers available in the MTC so students can get help with online assignments as well as homework assignments. The MTC is scheduled to open starting the second week. The hours for the MTC this semester will be announced in class as soon as they become official.

Center for Academic Success: The Center for Academic Success provides services, programs, and opportunities to help all undergraduate students succeed academically. For more information, contact them: 678-839-6280 or cas@westga.edu

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.

Cell Phones/Laptops:
You are expected to give your full, undivided attention while class is in session. Turn off or do not bring electronics that will distract you and the class. Electronic devices are not to be used during the lecture, unless permitted by the instructor.

COURSE POLICIES AND INFORMATION:
University Policies and Academic Support
Please carefully review the following Common Language for all university course syllabi at the link:

https://www.westga.edu/UWGSyllabusPolicies/

It contains important material pertaining to university policies and responsibilities. Because these statements are updated as federal, state, university, and accreditation standards change, you should review the information each semester.

Academic Dishonesty:
All students of the University of West Georgia are expected to follow the Honor Code as described in the student handbook (Definitions of academic dishonesty are defined in the student handbook: www.westga.edu/handbook/). Any student who commits academic dishonesty will receive the following penalties.
1. For a first charge of academic dishonesty the student will receive a grade of "0" for said assignment. In the event of academic dishonesty the final exam grade will not replace your lowest test grade if it is higher.
2. For a second charge of academic dishonesty the student will receive a grade of "0" for the course.

Note that all incidents of academic dishonesty will be reported to the University.

IMPORTANT DATES:

First Day of Class:	Wednesday, August 14
Drop Ends:	Tuesday, August 20
Last Day to Withdrawal with W:	Wednesday, October 9
Last Day of Class:	Friday, December 6
Final Exam Period:	December 7-13 (see The Scoop for specific times)
No classes:	Monday, September 2 (Labor Day)
	Thursday October 3 and Friday October 4 (Fall Break)
	Monday November 25- Friday November 29 (Thanksgiving)

Note This syllabus provides a general plan for the course; deviations may be necessary

COURSE OUTLINE

Section	Title
1.2	Exponents and Scientific Notation
1.3	Radicals and Rational Expressions
1.4	Polynomials
1.5	Factoring Polynomials
1.6	Rational Expressions
2.1	The Rectangular Coordinate System and Graphs
2.2	Linear Equations in One Variable
2.3	Models and Applications
2.4	Complex Numbers
2.5	Quadratic Equations
2.6	Other Types of Equations
2.7	Linear Inequalities and Absolute Value Inequalities
3.1	Functions and Function Notation
3.2	Domain and Range
3.3	Rates of Change and Behavior of Graphs
3.4	Composition of Functions
3.5	Transformation of Functions
3.7	Inverse Functions
4.1	Linear Functions
4.2	Modeling with Linear Functions
5.1	Quadratic Functions
5.2	Power Functions and Polynomial Graphs
5.3	Graphs of Polynomial Functions
5.4	Dividing Polynomials
5.5	Zeros of Polynomial Functions
6.1	Exponential Functions
6.2	Graphs of Exponential Functions
6.3	Logarithmic Functions
6.4	Graphs of Logarithmic Functions
6.5	Logarithmic Properties
6.6	Exponential and Logarithmic Equations
6.7	Exponential and Logarithmic Models
11.1	Systems of Linear Equations: Two Variables
11.2	Systems of Linear Equations: Three Variables