Instructor: Mr. Ricky Johnson  
Office: 106D Boyd Bldg., 1st Floor  
E-mail: rjohnson@westga.edu  
Office Hours: W 1:00-4:00, Fr 1:00-3:00; or by appointment

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.

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.

CourseDen: I will be using CourseDen at https://westga.view.usg.edu to post any announcements, videos, grades (tests, MyOpenMath score, bonus points, and final exam), and solutions. Please do not use courseDen to email me, use rjohnson@westga.edu instead.

MyOpenMath: 15% of final grade. All students are required to register an account at www.myopenmath.com. It costs nothing. This is where all homeworks and quizzes will be done. Students need to use the course ID: 37919 and enrollment key: 5298txmv25 when creating an account. Your total MyOpenMath score is comprised of: homework (70%), quizzes (30%).

Calculator: You will need a graphing calculator. Calculators equivalent to the TI-83, 84, 85, and 86 will be allowed on exams as well as scientific calculators. Cell phone calculators, the TI-89 and other equivalent calculators will not be permitted.

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.

MyOpenMath Homework: There will be weekly online homework assignments that must be completed by the due dates shown. After the due dates, scores will not be recorded, but you can
still access the assignment for review. You will be allowed 3 attempts for each problem. The lowest 2 homework scores will be dropped.

**MyOpenMath Quizzes:** There will be weekly online quizzes due within 1 day after every homework due date. 2 attempts per problem (30% penalty after 1st attempt). Note, once a quiz is started you will have a limited amount of time to complete it – usually about 3 hours. The lowest 3 quiz scores will be dropped. Note, at the end of the semester you may use your average quiz score to replace your lowest in-class test score.

**MyOpenMath LatePasses:** No extensions will be granted for any reason on any assignment in MyOpenMath. However, you will be granted 4 LatePasses that can be used to extend the due date of a homework or a quiz by 72 hours (3 days). You may only use 1 LatePass per homework (or quiz). After 72 hours past the due date, a LatePass cannot be used. If using a LatePass, your score will be reduced by 30%. Note, if you have accessed the assignment after the due date in review mode, the LatePass will not work.

**Tests:** 60% of final grade. 4 in-class tests, 100 points each. At the end of the semester, you may drop your lowest test score and replace it with your average MyOpenMath quiz score. After that, you may also have your lowest test score replaced with the score you receive on the final exam if higher. NO make-up tests for any reason (with the exception of participation in university approved activities - eg. athletic events - and you must notify me before the test.) If you miss a test, you can use 1 of the previous 2 options to replace it. There will be no make-ups for the Final Exam for ANY reason.

**Practice Problems:** Additional practice problems are posted on CourseDen. These do NOT need to be turned in.

**Bonus Points:**
You will be able to earn approximately 75-125 bonus points throughout the semester. The bonus points will be worth 4% added to your overall test average. There are 3 ways to earn bonus points:

1. Up to 20 points may be earned by going to the Math Tutoring Center (Boyd– room 205). You need to swipe your UWG ID card when entering and leaving. You will receive 2 bonus points for every day you visited the MTC (you must have stayed for at least 30 minutes) and received help from a tutor. You must turn in a completed verification form to me by Dec 7, 2018 (form is on courseDen).
2. Up to 20 points may be earned by attending tutoring sessions at The Center for Academic Success (Room 200 of the University Community Center). You will receive 2 bonus points for each session.
3. In-class bonus problems. Bonus points per problem will vary.

**Example:** The student’s test average from all 4 in-class tests is 89. Student earns 55 bonus points out of a maximum of 110 bonus points. Therefore, since \((55/110) \times 4 = 2\), student earns a 2% bonus. Student’s test average is now 91.
Grading Policy: Final grade will be based on the following scale:
(A=90-100%, B=80-<90%, C=70-<80%, D=60-<70%, F=<60).

4 Tests  (tentative dates, subject to change)  60% (includes 4% bonus)
- Test 1 Thursday, September 6
- Test 2 Tuesday, October 2
- Test 3 Thursday, November 1
- Test 4 Tuesday, December 4

MyOpenMath Total score  15%

Final (Comprehensive) Thurs, Dec 13 (8-10:00 am)  25%

Total  100%

Attendance: Attendance is important to do well in this course. Roll will be taken at every class. If you are late and miss the roll, you are absent. If you miss a class, you are still responsible for all material you may have missed including lecture notes and announcements. As stated earlier, there will be NO make-ups for missing a test or the Final Exam.

Disabilities: Students with documented disabilities (through West Georgia’s Accessibility Services) will be given all reasonable accommodations. Adjustments needed in relation to test-taking must be brought to the instructor's attention well in advance of the test (at least one week prior).

Other Course Policies:
1. Cell phones should be set to an inaudible setting or turned off.
2. All electronic correspondence between student and instructor should be by way of your UWG email account.
3. Arriving late and leaving early is discouraged as it is distracting and disrespectful.
4. Additional course policies:
   http://www.westga.edu/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf

Tentative Course Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Week beginning Mon:</th>
<th>Sections (from the textbook) to be covered during the week:</th>
</tr>
</thead>
</table>
| 1    | 8/13/2018           | Introduction
|      |                     | 1.2: Exponents                                          |
| 2    | 8/20/2018           | 1.3: Radicals
|      |                     | 1.4: Polynomials
|      |                     | 1.5: Factoring Polynomials
<p>|      |                     | 1.6: Rational Expressions                               |
| 3    | 8/27/2018           | 1.6: Rational Expressions                               |
|      |                     | 2.1: The Rectangular Coordinate System and Graphs       |
|      |                     | 2.2: Linear Equations in One Variable                   |
|      |                     | 2.3: Models and Applications                            |
| 4    | 9/3/2018            | 2.4: Complex Numbers                                   |
|      |                     | <strong>Test 1 --- Thursday, 9/6/2018</strong>                      |
|      |                     | 2.4: Complex Numbers                                    |
|      |                     | 2.5: Quadratic Equations                                |</p>
<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topics</th>
</tr>
</thead>
</table>
| 5    | 9/10/2018| 2.4: Complex Numbers  
2.5: Quadratic Equations  
2.6: Other Types of Equations |
| 6    | 9/17/2018| 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 |
| 7    | 9/24/2018| 3.3: Rates of Change and Behavior of Graphs  
3.4: Composition of Functions  
3.5: Transformation of Functions |
| 8    | 10/1/2018| Test 2 --- Tuesday, 10/2/2018  
FALL BREAK NO CLASSES 10/4 – 10/5 |
| 9    | 10/8/2018| 3.5: Transformation of Functions  
3.7: Inverse Functions  
4.1: Linear Functions |
| 10   | 10/15/2018| 4.1: Linear Functions  
2.2: Linear Equations in One Variable  
4.2: Modeling with Linear Functions  
5.1: Quadratic Functions |
| 11   | 10/22/2018| 5.2: Power Functions and Polynomial Graphs  
5.3: Graphs of Polynomial Functions  
5.4: Dividing Polynomials  
5.5: Zeros of Polynomial Functions |
| 12   | 10/29/2018| 5.5: Zeros of Polynomial Functions  
Test 3 --- Thursday, 11/1/2018 |
| 13   | 11/5/2018| 6.1: Exponential Functions  
6.2: Graphs of Exponential Function  
6.3: Logarithmic Functions  
6.4: Graphs of Logarithmic Functions |
| 14   | 11/12/2018| 6.5: Logarithmic Properties  
6.6: Exponential and Logarithmic Equations  
6.7: Exponential and Logarithmic Models |
| 15   | 11/19/2018| THANKSGIVING BREAK NO CLASSES 11/19 – 11/23 |
| 16   | 11/26/2018| 11.1: Systems of Linear Equations: Two Variables  
11.2: Systems of Linear Equations: Three Variables |
| 17   | 12/3/2018| Test 4 --- Tuesday, 12/4/2018  
Review for the Final Exam |

**Final Exam – Thursday, Dec 13, 8:00-10:00 am (covers All sections)**

**IMPORTANT DATES:**
- **First Day of Class:** Wednesday, August 15
- **Drop Ends:** Friday, August 17
- **Last Day to Withdrawal with W:** Monday, October 8
- **Last Day of Class:** Friday, December 7
- **Final Exam Period:** Thursday, Dec 13, 8:00-10:00 am
- **No classes:**
  - Mon, September 3 (Labor Day)
  - Thurs, October 4 and Fri, October 5 (Fall Break)
  - Mon, November 19- Fri, November 23 (Thanksgiving)
FIRST WEEK TASKS

1) Read the syllabus
   If you have a question regarding anything in the syllabus, please email me. The syllabus is a “contract” between instructor and student of the classroom policies. As your instructor, I must follow all policies that are listed on the syllabus to remain fair to all students. You can find a copy of the syllabus at any time during the semester in CourseDen.

2) Create an account on MyOpenMath.
   Go to www.MyOpenMath.com and click on “Register as a new student”. You will need my course ID and enrollment key (these are found on the first page of the syllabus) to register.
   After you have created your account, click on “Intro to MyOpenMath” in week 1. If completed by Friday, 8/17, you will receive up to 14 bonus points. This will help to familiarize you with system.

3) Begin working on “Homework Assignment 1” in MyOpenMath due Friday, 8/24 (Quiz 1 due by Saturday, 8/25)

   Good luck this semester!!