Math 1111 – College Algebra – 3 Credit Hrs  
Section 04, Fall 2017  
MWF 12:05 – 12:55 pm; Boyd 302

Instructor: Mr. Ricky Johnson  
Office: 106D Boyd Bldg., 1st Floor  
E-mail: rjohnson@westga.edu  
Office Hours: MW 11:00-12:00, Tu 11:00-1:00; W 5:00-6:00; or by appointment

Prerequisites: None. Math Department recommends a minimum ALEKS Placement score of 46 to be successful in the class.

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.


CourseDen: I will be using CourseDen at https://westga.view.usg.edu. to post any announcements and all grades – this includes tests, quizzes, final exam, and final grade. Please do not use courseDen to email me, use rjohnson@westga.edu instead.

ALEKS: Homework and quizzes will be done online. All students in MATH 1111 are required to have an ALEKS Account. Go to www.aleks.com to purchase an account. To purchase the subscription, you can either buy an access code at the bookstore or pay directly on the website. To activate a subscription on aleks.com, you will need to enter the following course code when you register: YGJPP-GFMYL. The subscription lasts for 18 weeks and grants you access to an online version of the textbook. Therefore, a physical copy of the textbook is optional. Please use your UWG email address when registering. Detailed instructions on how to enroll in ALEKS are on courseDen. If you currently do not have the funds, you may use the Financial Aid Access Code (see courseDen). This will grant you temporary access for 17 days without having to pay. After 17 days, however, your account will be frozen until payment is made. Please renew the same account, otherwise credit for any work done will be lost.

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 will 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

Homework (ALEKS modules): There are 13 interactive learning modules that must be completed by the due dates in ALEKS. Each module consists of problems from topics we will cover in class. Once the due dates have passed your score will be calculated based on the number of topics you have mastered. After the due date, you will no longer be able to improve your score for that particular module. The overall score you receive from the modules will NOT be part of your final course grade. At the end of the semester, if your overall module score is at least 75%, you may retake one of the first 3 tests. Note, when you first begin ALEKS, you will need to take the “Initial Knowledge Check.” Do NOT skip this. The better you score on the “Initial Knowledge Check”, the fewer topics you will have to complete in the remaining modules.

Quizzes (ALEKS): There will be 12 quizzes throughout the semester. These will be taken through ALEKS. The first quiz will cover topics from modules 1 and 2. After that, there will be 1 quiz for each module. The quizzes become available to take on the day the module is due. Unlike the modules, the quiz scores WILL be part of your final course grade. These scores will be downloaded to courseDen. Once a quiz becomes available, you will have 2 days to start it. Once a quiz is started, you will have a limited amount of time to complete it. You may attempt each quiz 2 times (highest score is kept). Note, that the quiz scores are NOT factored into your overall module score. Extensions for quiz due dates will not be granted for any reason. However, your lowest 2 quiz scores will be dropped.

Tests: There will be 4 tests throughout the semester. The test dates given below are tentative and are subject to change. As stated earlier, at the end of the semester, you will be allowed to retake one of the first 3 tests. To be eligible to retake a test, you must have a total ALEKS module score of 75%. (Note, the total score in ALEKS will come from your performance on the modules, not the quizzes). Test retakes will be taken online through ALEKS and will cover the same topics but with different problems. In addition, you may also drop your lowest test score and replace it with the score you receive on the final exam if higher. If you miss a test, you can use 1 of the previous 2 options to replace it. Therefore, there will be NO make-up tests for any reason (with the exception of participation in university approved activities (eg. athletic events) - and you must notify before the test. There will be no make-ups for the Final Exam for ANY reason.
**Practice Problems:** In addition to the modules in ALEKS, additional problems from the textbook will be assigned for practice. These do NOT need to be turned in; they are for practice only. They will be labeled “Practice Problems” and listed on CourseDen. It is highly suggested, however, that you work them as they are designed to help you study for the tests.

**Bonus Points (3% added to final grade):**
There will be short bonus quizzes throughout the semester. Each quiz will be worth 3-4 extra credit points. They may or may not be announced beforehand.

In addition, extra credit points can be earned by attending a tutoring session at The Center for Academic Success (Room 200 of the University Community Center): You must attend a 1 hour session of one-on-one tutoring at the Center for Academic Success for 1 bonus point. The full hour must be attended. You must submit a CAS verification card for tutoring. The dates for eligibility will be August 14 – November 17 for a maximum of 15 extra credit points from tutoring.

**Example:** Student earns 28 out of 42 possible bonus points. \((28/42)*3 = 2\). So 2 points would be added to final grade.

**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)  
  Test 1 Friday, September 1  
  Test 2 Wednesday, September 27  
  Test 3 Friday, October 27  
  Test 4 Wednesday, November 29  
  **Quizzes (ALEKS)**  
  **Total**

- **15%**

- **15%**

- **25%**

- **100%**

**Bonus (added on to final overall average)**  
**+3%**

**Math Tutoring Center:** Located in room 205 on the second floor of the Boyd Bldg, the MTC offers personalized help with math. No appointment necessary, just walk in. However, no extra credit points will be awarded for attending the math tutoring center.

**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

IMPORTANT DATES:

First Day of Class: Wednesday, August 9th
Drop Ends: Friday, August 11th
Last Day to Withdrawal with W: Friday, September 29th
Last Day of Class: Friday, December 1
Final Exam: Mon, December 4: 11:00 am-1:00 pm

No classes:
   Monday, September 4th (Labor Day)
   Thursday, October 5th (Fall Break)
   Friday, October 6th (Fall Break)
   November 20th-24th (Thanksgiving)
<table>
<thead>
<tr>
<th>MODULE</th>
<th>Sections</th>
<th>Due Date</th>
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<tbody>
<tr>
<td>1</td>
<td>R.1, R.2, R.3: Rules of Exponents and Simplifying Square Roots</td>
<td>Fri, 8/18/17</td>
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<tr>
<td>2</td>
<td>R.4, R.5, R.6: Factoring and Simplifying Polynomials and Ratios of Polynomials</td>
<td>Fri, 8/18/17</td>
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<td>3</td>
<td>1.1: Linear Equations and Rational Equations</td>
<td>Wed, 8/30/17</td>
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<td>4</td>
<td>1.3: Complex Numbers</td>
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<td>1.4: Quadratic Equations</td>
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<td>1.5: Application of Quadratic Equations</td>
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<td><strong>TEST 1</strong></td>
<td>Fri, 9/1/17</td>
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<td>1.6: More Equations and Applications</td>
<td>Mon, 9/11/17</td>
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<td>1.7: Linear, Compound and Absolute Value Inequalities</td>
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<td>6</td>
<td>2.1: The Rectangular Coordinate System and Graphing Utilities</td>
<td>Mon, 9/18/17</td>
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<td>2.2: Circles</td>
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<td>2.3: Functions and Relations</td>
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<td>2.4: Linear Equations in Two Variables and Linear Functions</td>
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<td>2.5: Applications of Linear Functions</td>
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<td><strong>TEST 2</strong></td>
<td>Wed, 9/27/17</td>
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<td>2.6: Transformations of Graphs</td>
<td>Mon, 10/9/17</td>
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<td>2.7: Analyzing Graphs of Functions</td>
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<td>2.8: Algebra of Functions</td>
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<td>9</td>
<td>3.1: Quadratic Functions and Applications</td>
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<td>3.2: Introduction to Polynomial Functions</td>
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<td>3.3: Division of Polynomials and Factor and Remainder Theorem</td>
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<td>3.4: Zeros of Polynomials</td>
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<td>3.7: Variation</td>
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<td><strong>TEST 3</strong></td>
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<td>4.1: Inverse Functions</td>
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<td>4.2: Exponential Functions</td>
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<td>4.3: Logarithmic Functions</td>
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<td>12</td>
<td>4.4: Properties of Logarithms</td>
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<td>4.5: Exponential and Logarithmic Equations</td>
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<td>4.6: Modeling with Exponential and Logarithmic Functions</td>
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<td>13</td>
<td>9.1: Systems of Linear Equations in Two Variables and Applications</td>
<td>Mon, 11/27/17</td>
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<td>9.2: Systems of Linear Equations in Three Variables and Applications</td>
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<td><strong>TEST 4</strong></td>
<td>Wed, 11/29/17</td>
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