MATH 1111 - College Algebra
Hours Credit: 3 hours    Prerequisites: None
Spring 2017

COURSE INSTRUCTOR
Instructor: Mary F. King
Office: Boyd 111A
Email: mking@westga.edu
Phone: 678-839-6489 (Math Office)

OFFICE HOURS
Tuesday and Thursday 10:00 a.m. – 10:50 a.m. and 2:00 p.m. – 3:00 p.m.
Appointments are available upon requests.

REQUIRED COURSE MATERIALS
TEXT: College Algebra and Trigonometry, by Julie Miller and Donna Gerken (McGraw Hill Education)

ALEKS: All students in MATH 1111 are required to have an ALEKS Account. Go to www.aleks.com to purchase an account. The course code for this section is: JX9P6-PTELG

NOTE: Graphing calculators equivalent to the TI 83, 84, 85, and 86 will be allowed in this course, as will scientific calculators. The TI-89 and other equivalent calculators will not be allowed.

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.

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
College Algebra Course Overview
Textbook:  *College Algebra and Trigonometry, by Julie Miller and Donna Gerken*

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<td>R.6</td>
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1  **Equations and Inequalities**
1.1 Linear Equations and Rational Equations
1.2 Applications with Linear and Rational Equations
1.3 Complex Numbers
1.4 Quadratic Equations
1.5 Application of Quadratic Equations
1.6 More Equations and Applications
1.7 Linear, Compound and Absolute Value Inequalities

2  **Functions and Relations**
2.1 The Rectangular Coordinate System and Graphing Utilities
2.2 Circles
2.3 Functions and Relations
2.4 Linear Equations in Two Variables and Linear Functions
2.5 Applications of Linear Functions
2.6 Transformations of Graphs
2.7 Analyzing Graphs of Functions and Piecewise Defined Functions
2.8 Algebra of Functions

3  **Polynomial and Rational Functions**
3.1 Quadratic Functions and Applications
3.2 Introduction to Polynomial Functions
3.3 Division of Polynomials and the Factor and Remainder Theorem
3.4 Zeros of Polynomials
3.7 Variation

4  **Exponential and Logarithmic Functions**
4.1 Inverse Functions
4.2 Exponential Functions
4.3 Logarithmic Functions
4.4 Properties of Logarithms
4.5 Exponential and Logarithmic Equations
4.6 Modeling with Exponential and Logarithmic Functions

9.1  **Systems of Equations and Inequalities**
9.1 Systems of Linear Equations in Two Variables and Applications
9.2 System of Linear Equations in Three Variables and Applications
IMPORTANT DATES:

Dr. Martin Luther King, Jr. Holiday
Last Day to Withdrawal with W:
Spring Break
Last Day of Class:

Monday, January 16th (no classes)
Thursday, March 2nd (4:00 p.m.)
M – Sa, March 20th – 25th (no classes)
Monday, May 1st

COURSE ASSESSMENT

Tests: Four tests will be given at 100 points each. A make-up test may only be given in specific situations. It is your responsibility to contact me immediately if you are unable to take a test. You must provide documentation when requested to verify your reason for missing a test.

ALEKS: Homework assignments will be entered into ALEKS for you to complete. You will have a specific time period to complete the assignment. The instructions will be given in class to let you know when the assignment has been loaded and when it must be completed. It is your responsibility (even if you’re absent) to complete the work. The homework assignments in ALEKS will not be accepted late, so do not wait until the last minute. Please DO NOT email me inside ALEKS.

Quizzes: Ten quizzes will be given at 10 points each. Some of the quizzes will be given in class and others will be take-home. Take-home quizzes will be due at the beginning of class and will NOT be accepted late. Cheating is unacceptable and will result in a grade of zero and possible dismissal from course. Make-up quizzes will not be given. Quizzes in class may or may not be announced.

FINAL Exam: A comprehensive final exam will be given at the end of the semester that will count 200 points. Information regarding a Practice Final will be provided later in the semester.

Final Exam Date: Thursday, May 4, 2017 11:00 a.m. – 1:00 p.m.

All tests, quizzes, homework, assignments, and the final exam must be completed in pencil. Work submitted in ink will receive a grade of zero.
ASSESSMENT GRADING:

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<tr>
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<td>ALEKS</td>
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<td>Quizzes</td>
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800

Grade: Points available 800

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<tr>
<td>720 - 800</td>
<td>A</td>
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<tr>
<td>640 - 719</td>
<td>B</td>
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<tr>
<td>560 - 639</td>
<td>C</td>
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<tr>
<td>480 - 559</td>
<td>D</td>
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<tr>
<td>Below 480</td>
<td>F</td>
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Extra Credit: You will have an opportunity to earn up to 25 additional points during the semester. I will announce a task to be completed and a completion deadline. The number of points assigned may vary depending on the task. No other extra credit will be given to individual students.

OTHER COURSE INFORMATION

Withdrawal: The last date to withdraw from this course with a grade of W is Thursday, March 2nd before 4:00 p.m. Any student who withdraws after this deadline will receive a grade of WF which calculates as an F into your G.P.A. Please note that failure to attend class does not constitute a withdrawal.

Attendance: Regular class attendance is necessary for success in this course. You are expected to attend each class session. A maximum of five absences (for any reason) will be permitted. Excessive absences (more than five) may result in a failing grade in the course. You are expected to arrive on time and be prepared to remain in class the entire class period to be counted as present. Arriving to class late and/or leaving before class is dismissed will be counted as an absence after a verbal warning has been given. If you arrive after roll has been called, you must notify the instructor at the end of class. Any exceptions to the attendance policy must be approved by the instructor. Please do not bring children and/or visitors to class with you.

Class: Class time will primarily be spent on lectures. Assignments will be made based on the topics discussed in class. These assignments are from the textbook. You are expected to complete assignments on the topics. Seek help immediately if you are having trouble completing the work. If you miss class, it is your responsibility to get information and notes from a classmate. I do not have notes to email you.
CourseDen: I will use CourseDen to post your scores and messages throughout the semester. No quizzes, tests or assignments will be offered in CourseDen. Please DO NOT email me in CourseDen.

- CourseDen http://uwgonline.westga.edu
- Email: online@westga.edu Phone: 678-839-6248

Resources
Supplemental Instruction
You will have the option to participate in a student led review and study session weekly. These sessions can be beneficial to students. These sessions can help students learn how to study and prepare for the course as well as improve test scores. A schedule will be provided by the SI leader.

Math Tutoring Center
- Boyd Rm 205
- Monday/Wednesday 9 a.m. – 8 p.m.
- Tuesday/Thursday 11 a.m. – 8 p.m.
- Friday 9 a.m. – 3 p.m.

Center for Academic Success
- UCC Rm 200
- Call for a tutoring appointment: 678-839-6280
- www.westga.edu/excel/

Counseling Center and Accessibility Services
- Row Hall Rm 123
- Call for counseling apt: 678-839-6428
- www.westga.edu/counseling/ or www.westga.edu/accessibility

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

http://www.westga.edu/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf

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.

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 at http://www.westga.edu/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf
Academic Honesty

Cheating: Cheating is unacceptable and anyone caught cheating will receive a failing grade in this course. Please be aware that cheating can also lead to expulsion from the University. Please read the information regarding UWG Honor Code and other pertinent information on the UWG website.

Definitions of academic dishonesty are defined in the student handbook:
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. The following is also mandatory:

Classroom behavior: All students are expected to behave and speak in respectful and courteous manner. Any student who repeatedly causes a distraction or disruption in the classroom will be asked to leave. Disruptive behavior may result in dismissal from the course.

Cell Phones: Please turn phones off or use the silent feature when you are in the classroom. Please do not text or otherwise use your phone during class. Repeated violations may result in dismissal from course. Tablets/laptops may be used in class to access your book at aleks.com. All cell phones (and any other electronic devices) must be put away during all in-class quizzes, tests and final exam.