MATH 1111 - College Algebra
Hours Credit: 3 hours Prerequisites: None
Fall 2016

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.

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: RU34F-MY9LF

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 equation
# College Algebra Course Overview

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

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| **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:

Add/Drop Ends: Sunday, August 14th
Last Day to Withdrawal with W: Friday, Sept 30th
Last Day of Class: Friday, December 2nd
Final Exam Period: December 3-9 (see The Scoop for specific times)

No classes: Monday, Sept 5th (Labor Day)
Thursday, Oct 6th and Friday, Oct 7th (Fall Break)
November 21st – 25th (Thanksgiving)

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/Assignments: Five quizzes will be given in class at 10 points each. Make-up quizzes will not be given. Quizzes may or may not be announced. You will also be given handouts throughout the semester that you must turn in to be graded. The points may vary for this work, but the total will be 50 points.

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:

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:

Tests 400
ALEKS 100
Quizzes/Assignments 100
Final Exam 200

800

Grade: Points available 800
720 – 800 A
640 – 719 B
560 – 639 C
480 – 559 D
Below 480 F

Extra Credit: You will have an opportunity to earn up to 20 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 Friday, September 30th before midnight. 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. 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. 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 only post your scores throughout the semester.

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/Tuesday/Wednesday  9 a.m. – 8 p.m.
Thursday  9 a.m. – 7 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.

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 class. Tablets/laptops may be used in class to access your book on ALEKS. All cell phones (and any other electronic devices) must be put away during all in-class quizzes, tests and final exam.