

MATH 1111 - College Algebra

Hours Credit: 3 hours

Prerequisites: None

Math Department recommends a minimum ALEKS Placement score of 46 to be successful in the class.

COURSE INSTRUCTOR

Instructor: Carrie Carmack
Office: Boyd 104B
Email: Ccarmack@westga.edu
Phone: 678-839-5408

OFFICE HOURS

Tuesday	Wednesday	Thursday
1:50 PM – 3:30 PM	9:30 AM – 11:30 AM 1:00 PM – 3:00 PM	1:50 PM – 3:30 PM

REQUIRED COURSE MATERIALS.

ALEKS: All students in MATH 1111 are required to have an ALEKS Account. Go to www.aleks.com to purchase an account.

The ALEKs course code for this section is: T Y V L P – Y T N D W

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

COURSE ASSESSMENT

Students' mastery of course learning outcomes will be assessed using the following methods:

- 1) **QUIZZES:** You will be assigned quizzes in ALEKs during the semester. Quizzes will be worth 100 points each and must be submitted by the assigned due date. If a student misses a quiz, they will receive a 0%. Students will not be given extra time to complete/submit a quiz, regardless of the reason they missed. **DO NOT WAIT UNTIL THE LAST MINUTE TO SUBMIT A QUIZ.**

*The lowest quiz grade will be dropped at the end of the semester.

****One quiz grade will be the ALEKs Knowledge Check. This test is given when you register for my class in ALEKs. Students will receive a 100% quiz grade if they complete the Knowledge Check by 2:00 PM on Jan 20, 2016. If the Knowledge Check is completed after this date, students will receive a 70% for their grade. If the student does not complete the Knowledge Check by 2:00 PM on Feb. 3, 2016, they will receive a 0% for their first quiz grade.**

Note: You are graded on completion of the Knowledge Check only. The grade you make on the Knowledge Check will not be included in your final grade.

*You will need at least 1 hour (varies) to take the Knowledge Check. Take your time and try your best. The Knowledge Check will test your current knowledge and what you need to work on. Do not get help on the Knowledge Check, or it will skew your results.

- 2) **EXAMS:** You will be given 4 in-class exams during the semester. Each exam will be worth 100 points. **STUDENTS CAN NOT TAKE AN EXAM LATE.** If a student misses an exam, for any reason, they will not be permitted to take the exam at a later time. A student may take an exam early if they give the instructor a minimum of 5 days notice. **A student's Final Exam grade will replace their lowest in-class exam grade.**

*Students will have the opportunity to retake one exam (Exam 1, Exam 2, Exam 3). **To be eligible to retake an exam, students must complete ALEKs Modules 1-14 by their assigned due date AND MAINTAIN AN OVERALL ALEKS GRADE OF 70%.** Due dates can be found in ALEKs and will be announced in class. If a student does not maintain an ALEKs grade of 70%, they will not be able to retake a test.

*Students must sign up for their retake by **2:00 PM on 04/13/2016**. A sign in sheet will be given in class for students to sign up. If a student fails to sign up on the sign in sheet, they will not be eligible for a retake.

- 3) **FINAL:** Students will have a comprehensive final exam. Students are required to take the final exam on their scheduled day. Final exam day/time is listed in SCOOP.

*A study guide will be given to students to help them prepare for the final exam.

ASSESSMENT GRADING:

Quizzes (ALEKs):	15%
Exams:	60%
Final:	25%

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

Grading Scale:

90% - 100%:	A
80% - 89%:	B
70% - 79%:	C
60% - 69%:	D
<60%:	F

***I WILL NOT INCREASE GRADES ON AN INDIVIDUAL BASIS. PLEASE DO NOT ASK.**

***I WILL NOT ALLOW ANY EXTRA CREDIT OTHER THAN WHAT IS LISTED BELOW IN "OTHER COURSE INFORMATION".**

***WHEN GRADES ARE CALCULATED, I WILL ROUND ACCURATELY (89.4% = B, 89.5% = A)**

OTHER COURSE INFORMATION

- 1) **ALEKs Modules:** Modules will be given but not be assigned for a grade. However, students must complete Modules by their assigned due date and **maintain a 70% ALEKs grade** to be eligible for a retake exam.

***Modules are designed to be worked as we cover the content in the semester. Do not procrastinate on your modules or you will risk not getting them finished in time. Students will NOT be given extra time to complete their modules.**

Students should have the following modules completed by each test in order to be fully prepared:

TEST 1:	Modules 1-5
TEST 2:	Modules 6-8
TEST 3:	Modules 9-11
TEST 4:	Modules 12-13

2) **Extra Credit**: Extra credit will be offered in this class via:

i) **Supplemental Instruction**: You must attend 50 minutes of a 1 hour session with our SI leader for 1 bonus point.

ii) **Tutoring**: You must attend 1 hour of tutoring in the Center for Academic Success for 1 bonus point.

*You must submit a CAS verification card for tutoring.

iii) **Intervention Tutoring**: You can attend a 1 hour intervention tutoring session for 1 bonus point. You must sign up with the instructor and commit to certain tutoring policies to be eligible to attend.

You may receive a maximum of 20 bonus points during the semester to go toward your exam grade. The dates for eligibility will be January 16 – April 20.

3) **Attendance**: Attendance will be taken but not used as a grade.

*Students are expected to come to class and be “present”. If you come to class to sleep, be disruptive, or use your phone, you may be asked to leave.

*It is the student’s responsibility to catch-up on any missed material. You will not be permitted to have a copy of the instructor’s notes. It is your responsibility to find out any announcements/changes made during class.

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

Any form of academic dishonesty will result in a failing grade for the assignment for the first offense. A second offense will result in a failing grade for the course. All forms of academic dishonesty will be reported.

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 courtesies are required of all students while in the classroom. The following is also mandatory:

- 1) Cell phones and laptops will not be permitted in class, unless prior arrangements have been made with the instructor (emergencies, disabilities, etc). Continued use of cell phones/laptops will result in your dismissal of class.

- 2) Students are required to be courteous to others and the instructor. If a student is being disrespectful or disruptive, they will be asked to leave.

COURSE OUTLINE

MODULE	Sections	NOTE	Learning Outcome
1	Rules of Exponents and Simplifying Square Roots	from sections R.1, R.2 and R.3	
2	Factoring and Simplifying Polynomials and Ratios of Polynomials	from sections R.4, R.5 and R.6	
3	1.1: Linear Equations and Rational Equations		
	1.2: Applications with Linear and Rational Equations		
4	1.3: Complex Numbers		
	1.4: Quadratic Equations		

	1.5: Application of Quadratic Equations		
5	1.6: More Equations and Applications		
	1.7: Linear, Compound and Absolute Value Inequalities		
	TEST 1		
6	2.1: The Rectangular Coordinate System and Graphing Utilities		
	2.2: Circles		1
	2.3: Functions and Relations		2
7	2.4: Linear Equations in Two Variables and Linear Functions		1
	2.5: Applications of Linear Functions		1
8	2.6: Transformations of Graphs		2
	2.7: Analyzing Graphs of Functions and Piecewise Defined Functions	Even/Odd, Symmetry, Increasing/Decreasing only	2
	2.8: Algebra of Functions		3
	TEST 2		
9	3.1: Quadratic Functions and Applications		
	3.2: Introduction to Polynomial Functions		4
	3.3: Division of Polynomials and Factor and Remainder Theorem		4
10	3.4: Zeros of Polynomials		5
	3.7: Variation		
11	9.1: Systems of Linear Equations in Two Variables and Applications		9
	9.2: Systems of Linear Equations in Three Variables and Applications		9
	TEST 3		
12	4.1: Inverse Functions		6
	4.2: Exponential Functions		7
	4.3: Logarithmic Functions		7
13	4.4: Properties of Logarithms		7
	4.5: Exponential and Logarithmic Equations		8
	4.6: Modeling with Exponential and Logarithmic Functions		
	TEST 4		

IMPORTANT DATES:

Drop Ends:

Last Day to Withdrawal with W:

Last Day of Class:

Final Exam Period:

No classes:

Wednesday, January 11th

Thursday, March 2nd

Monday, May 1

May 3-9 (see The Scoop for specific times)

Monday, January 16th (MLK Day)

March 20th-24th (Spring Break)