

MATH 1111 - College Algebra
Section 12
Mon, Wed 8:00-9:15, 146 Callaway

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: Scott Sykes

Office: 314 Boyd

Email: ssykes@westga.edu

Phone: 678-839-4125

OFFICE HOURS: MON 10:00-12:00, 2:30-3:30

TUES 1:00-3:00

WED 10:00-12:00, 2:30-3:30

FRI 10:00-12:00

REQUIRED COURSE MATERIALS

TEXT AND OTHER 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 **HLDND-RKDAH**

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 SCHEDULE

WEEK	Sections	NOTE	Learning Outcome
1	1.1: Linear Equations and Rational Equations		
	1.2: Applications with Linear and Rational Equations		
2	1.3: Complex Numbers		
	1.4: Quadratic Equations		
	1.5: Application of Quadratic Equations		
3	1.6: More Equations and Applications		
	1.7: Linear, Compound and Absolute Value Inequalities		
4	TEST 1		
	2.1: The Rectangular Coordinate System and Graphing Utilities		
5	2.2: Circles		1
	2.3: Functions and Relations		2
6	2.4: Linear Equations in Two Variables and Linear Functions		1
	2.5: Applications of Linear Functions		1
	2.6: Transformations of Graphs		2
7	2.7: Analyzing Graphs of Functions and Piecewise Defined Functions	Even/Odd, Symmetry, Increasing/Decreasing only	2
	2.8: Algebra of Functions		3
8	TEST 2		
	3.1: Quadratic Functions and Applications		
9	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	TEST 3		
	4.1: Inverse Functions		6
12	4.2: Exponential Functions		7
	4.3: Logarithmic Functions		7
13	4.4: Properties of Logarithms		7
	4.5: Exponential and Logarithmic Equations		8
14	4.6: Modeling with Exponential and Logarithmic Functions		
	TEST 4		
15	9.1: Systems of Linear Equations in Two Variables and Applications		9
	9.2: Systems of Linear Equations in Three Variables and Applications		9

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

There will be 4 in class tests given on:

Wednesday September 7th
Wednesday, October 5th
Wednesday October 26th
Wednesday, November 16th

In addition, there will be a final given on Monday, December 5th from 8:00-10:00. The final counts as two tests.

You will also have a module due on ALEKS every Friday starting August 19th. The module closes at 11:59 pm every Friday. Do not wait until the due date to do the module – if the site is not available, you will get a 0 for that module!

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.

At the end of the semester, you will have 7 grades: Test 1, Test 2, Test 3, Test 4, FINAL, FINAL, ALEKS. You can drop the lowest score and add the other 6 together. Your grade in the class is based on that total on the following chart:

Grading Scale:

TOTAL	GRADE
540-600	A
480-539	B
420-479	C
360-419	D
0-359	F

OTHER COURSE INFORMATION

You are expected to attend class on a regular basis. Occasionally, in class, there may be extra points awarded for doing work.

COURSE POLICIES AND INFORMATION

University Policies

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.

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:

IMPORTANT DATES:

Friday, August 19	Module 1 Due *
Friday, August 26	Module 2 Due *
Friday, September 2	Module 3 Due *
Wednesday, September 7	TEST 1
Friday, September 16	Module 4 Due *
Friday, September 23	Module 5 Due *
Friday, September 30	Module 6 Due *
Wednesday, October 5	TEST 2
Friday, October 7	Module 7 Due *
Friday, October 14	Module 8 Due *
Friday, October 21	Module 9 Due *
Wednesday, October 26	TEST 3
Friday, October 28	Module 10 Due *
Friday, November 4	Module 11 Due *
Friday, November 11	Module 12 Due *
Wednesday, November 16	TEST 4
Friday November 18	Modules 13 AND 14 Due *
Friday, December 2	Module 15 Due *
Monday, December 5	FINAL