

MATH 1111: College Algebra

Spring Semester 2015

Instructor: Dr. Abdollah Khodkar

Office: Boyd 309

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Office Hours:

Weekdays	Morning	Afternoon
Monday	10-12	
Tuesday		
Wednesday	10-12	3-5
Thursday		
Friday	10-12	

If you would like to see me but cannot come during one of these times, please call first or make an appointment.

Prerequisites: None

Time and location: MWF 1pm-2pm, 230 Lecture Hall

Hours Credit: 3 hours

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.

Text: *Precalculus, 5e*, by Robert Blitzer (Pearson/Prentice Hall)

Attendance Policy: *If a student misses this class three times, he/she may receive a grade of F in this course.*

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

Other Course Policies: Other course policies, including information regarding students with disabilities and the UWG Honor Code can be found at either of the following websites. You should read this at the beginning of each semester.

http://www.westga.edu/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf
<http://tinyurl.com/UWGSyllabusPolicies>

Notice: No cell phones or laptops are allowed in this class. No extra credits.

Topics include

Sections

Section	Title Topic	Homework Problems
P.2	Exponents and Scientific Notation	23-63
P.3	Radicals and Rational Exponents	13-21, 33-43, 83-99
P.5	Factoring Polynomials	1-9, 11-15, 17-37, 39-47, 49-55, 65, 83
P.6	Rational Expressions	7-13, 15-19, 23-31, 33-55
P.7	Equations	9-15, 17-25, 27-41, 43-53 55-65, 75-81, 91-101
P.9	Linear and Absolute value inequalities	27-39, 49-53, 57-77
1.2	Basics of Functions and Their Graphs	1-9, 27-37, 55-64, 65-75 77-91
1.3	More on functions and their graphs	17-27, 29-32, 55-69
1.4	Linear functions and slope	1-37, 39-57, 87-89
1.5	More on slope	5-11, 21-25
1.6	Transformations of functions	1-9, 17-25, 33-37, 45-47

1.7	Combinations of functions	1-11, 17-25, 31-41, 51-63, 97, 99
1.8	Inverse Functions	1-9, 11-27, 29-43, 35-38
1.9	Distance and Midpoint Formulas	1-17, 19-29, 31-51, 71-73
2.1	Complex Numbers	1-7, 9-19, 29-43, 45-49
2.2	Quadratic Functions	1-7, 17-37, 57-69
2.3	Polynomial functions and Graphs	1-9, 19-24, 25-32
2.4	Dividing Polynomials	17-32, 43-47, 49
3.1	Exponential Functions	1-9, 11-17, 53-56, 65, 66, 71, 73
3.2	Logarithmic Functions	1-19, 21-41, 81-99, 113-116
3.3	Properties of Logarithms	1-33, 41-61, 69,70,71-78
3.4	Exponential and Logarithmic Equations	23-39, 49-63, 67-81, 105-111
3.5	Exponential Growth and Decay	1-13, 19-31
7.1	Systems of Two equations in two variables	5-17, 19-27, 31-41, 55-58
7.2	Systems of Three equations in three variables	1-3, 5-15

Homework: I will also hand in homework problems that are not to be turned in and graded but that are meant to reflect the sort of questions you can expect on tests and final exam. I encourage you to use my office hours if you have any questions about them.

Tests: There will be three tests. Each will be worth 25%.

Test 1: Wednesday January 28, 2015

Test 2: Wednesday February 25, 2015

Test 3: Wednesday March 25, 2015

(Tests dates are subject to change.)

Final exam: The final exam will be on Wednesday, April 22, 11:00-1:30pm and worth 25% toward your final grade.

Rescheduling tests/final: If you have a “**valid reason**” for missing a test or final, you may be allowed to reschedule, but you must make arrangements with me in advance.

Calculators: You are only allowed to use TI-83 or TI-84 in the tests and the final exam.

Grading Scale:

- A= 90-100%
- B= 80-89%
- C= 70-79%
- D= 60-69%
- F= 0-59%



Grading: Your final grade will be determined as follows:

Tests: 75%,

Final exam: 25%

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Course Title: College Algebra

Hours Credit: 3 hours

Prerequisites: None

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The final exam for MATH 1111 will be at the regularly scheduled time, as listed in the SCOOP. It will not be on Saturday.

The final exam should account for 25% of the students' grades. 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.