

University of West Georgia SPRING 2018

Course: MATH 1111 College Algebra, Sections 04 3 credits PREREQUISITE: NONE.

Course Description: This course is a functional approach to algebra that incorporates the use of appropriate technology. Emphasis will be placed on the study of functions, and their graphs, inequalities, and, linear, quadratic and piece-wise defined, polynomial, exponential and logarithmic functions. Appropriate applications will be included. Credit for this course is not allowed if the student already has credit for a higher-numbered mathematics course.

Learning Outcomes: Students should be able to demonstrate:

1. An understanding of simplifying expressions with exponents and radicals.
2. An understanding of how to solve various types of equations.
3. An understanding of the equations of circles and lines
4. An understanding of functions and how to graph functions
5. An understanding of operations on functions including function composition
6. An understanding of polynomial graphs, including intercepts and end-behavior
7. An understanding of how to find the zeros of a polynomial and how to factor polynomials
8. An understanding of inverse functions and how to find them graphically and algebraically
9. An understanding of the properties of exponential and logarithmic equations
10. An understanding of how to solve exponential and logarithmic equations
11. An understanding of how to solve a system of equation

Instructor: Mr. Jim Bellon (best way to contact me is through CourseDen) or jbellon@westga.edu

Office & Hours: Boyd 104C Mon 10:30–11 am, Wed 10–11 am, 3:15-4:15pm, Fri 10:30–11 am
Boyd 205 (math tutoring center) Mon 3:30 – 4:30pm, other hours possible by appointment

Class Meets: Mon/Wed/Fri 11 – 11:50pm in TLC 1200
In UWG's CourseDen for class information and communication
And McGraw Hill publisher's ALEKS website for online assignments.

Course Materials: A graphing calculator is recommended (preferably one of the TI-83 or 84 models). Students are required to purchase access to ALEKS (includes **e-book**). Options are:

- #1: pay for immediate access when you register directly at www.ALEKS.com
Use the course code **9VDNL-FW43W** ****This is cheapest price option**.**
- #2: buy ALEKS-Accesscode at the bookstore or elsewhere. Join course code **9VDNL-FW43W**
- #3: Get an ALEKS accesscode bundled with the textbook. Join course code **9VDNL-FW43W**

***** The actual textbook is optional. ALEKS includes e-book access to the text. *****
College Algebra and Trigonometry, by Julie Miller and Donna Gerken, from McGraw Hill.

Grading: ALEKS Homework (avg counts 30%), 4 multiple choice tests in class (avg counts 45%)
Final exam (cumulative multiple-choice, counts 25%). Must take syllabus quiz in CourseDen, which will count as attendance to avoid being dropped. Final grades determined as follows:

89.3 % and higher	=	A
79.5 % to 89.2 %	=	B
69.7 % to 79.4 %	=	C
60 % to 69.8 %	=	D
Below 60 %	=	F

Make-up policy: There are no make-ups for online assignments. You are expected to keep up with learning the material each week, completing assignments by the due dates, and getting help when needed. Make-ups for tests may be granted with a valid documented excuse, and only if you notify me before or on the day of the test.

Extra-credit policy: There will be NO extra credit given, period! Points can be earned only as stated above.

Attendance Policy: Students are expected to pay attention to CourseDen calendar and check for assignments on ALEKS. Failure to do so will result in missing assignments and maybe being dropped. You must also take the syllabus quiz in CourseDen by Friday 1/19. Otherwise, grades will not be altered for attendance. Students are expected to attend class and complete all work when assigned. Students are responsible for the topics covered and assignments due whether present or not. **“I was not here” is NOT a valid excuse. Any student not setup in Aleks on Jan 22nd, will be dropped during roster verification.**

Last Date to Withdraw: *Wed February 28th* Any student who withdraws after this date will receive a grade of “F”. **ANY STUDENT WITHOUT ALEKS ACCESS ON THU 3/1 WILL BE DROPPED AS “F”.**

ALEKS INFO: See courseden for details of how to register and access the ALEKS ebook and learning system. As we go through the topics in each module, you have two choices for the ALEKS grade for each module. You can do the full learning module (best for students who need lots of practice and help) OR go to assignments and do the HW assigned for the module (best for strong students who understand the topics and just want to do enough work to prepare for tests). The BETTER of the two grades will count, so you can do one or the other, BUT you can do both and receive best grade.

Class Rules: You are to turn off your cellular phone during the class. You are not allowed to use your phone as a calculator. Please respect your instructor and other students in the class. No talking or any distracting behavior. If you fall asleep in class, you will be asked to leave. It is expected that students be familiar with the Student Conduct Code, Disciplinary Procedures and Disciplinary Sanctions in the Student Handbook. Cheating and/or any conduct that disturbs the classroom, the instructor, or the students WILL NOT be tolerated!! Any serious violations will be reported; appropriate actions will be taken; and consequences will result. Please see the general policies for UWG at <https://www.westga.edu/UWGSyllabusPolicies>

Meeting with Instructor can be beneficial and is encouraged. Meeting should occur during the instructor's office hours, whenever possible. If these hours conflict with a student's schedule, then appointments should be made. The meeting time is not to be used for duplication of lectures that were missed; it is the student's responsibility to obtain and review lecture notes before consulting with the instructor. As your instructor, I am very concerned about the student's achievement and well-being and encourages anyone having difficulties with the course to contact me for extra help.

Note: If you have a documented disability, which will make it difficult for you to carry out the course work as I have outlined and / or if you need special accommodation or assistance due to disability, please contact me as soon as possible.

Math Tutoring: On Campus:
**Offered by the math Department in Boyd 205, you can just walk in and get help.
Hours are Mon/Tues/Wed/Thurs 9am-7pm, Fri 9am-3pm
There are 2-3 tutors on duty who will rotate between students.
There are also textbooks and computers to use while you are in the tutoring center.

** Offered by the Center for Academic Success in UCC building. You will be assigned a 1-1 personal tutor, or attend available drop in sessions.

This is a tentative schedule of assignments and topics to be covered in class sessions. Changes will be made as needed. Once we finish a section, we will immediately move along to the next section. It is recommended that you read over text sections BEFORE we cover them in class. After we cover topics, you should complete assignments and do any extra practice or get help as needed. Don't wait until its too late (like after doing bad on a test).

1/8 – 1/12	Introduction, Sec R1,R2,R3, R4 exponents, roots, polynomial expressions		
1/15 – 1/19	Monday 1/15 MLK-DAY - No Class Sec R5, R6 factoring/simplifying, 1.1 Equations, 1.2 Applications		<u>MOD 1 due SUN 1/21</u>
1/22 – 1/26	Sec 1.3 Complex #'s, 1.4 Quadratics, 1.5 Applications	<u>MOD 2 due WED 1/24</u>	<u>MOD 3 due SUN 1/28</u>
1/29 – 2/2	Sec 1.6 More Equations, 1.7 Inequalities	<u>MOD 4 due WED 1/31</u>	<u>MOD 5 due MON 2/5</u>
2/5 – 2/9	Finish any remaining material from above sections, then Review for test #1 Test #1 on Friday February 9th (chapters R and 1)		
2/12 – 2/16	Sec 2.1 Coordinates/Graphs, 2.2 Circles, 2.3 Functions		
2/19 – 2/23	Sec 2.4 Linear equations and functions, 2.5 Applications		<u>MOD 6 due WED 2/21</u>
2/26 – 3/2	Sec 2.6 Transformations, 2.7 Graphs/Functions		<u>MOD 7 due WED 2/28</u>
3/5 – 3/9	Sec 2.8 Algebra of functions, Review for test # 2 MARCH 9th NO MATH CLASSES – MATH DAY special event.		<u>MOD 8 due THU 3/8</u>
3/12 – 3/16	Test #2 on Monday March 12th (chapter 2) Sec 3.1 Quadratic functions, 3.2 polynomial functions		
3/19 – 3/23	SPRING BREAK		
3/26 – 3/30	Sec 3.3 polynomial division, 3.4 zeros of polynomials		<u>MOD 9 due WED 3/28</u>
4/2 – 4/6	Sec 3.7 Variation, Review for test # 3 Test #3 on Friday April 6^h (chapter 3)		<u>MOD 10 due WED 4/4</u>
4/9 – 4/13	Sec 4.1 Inverse functions, 4.2 Exponential functions, 4.3 Log functions		
4/16 – 4/20	Sec 4.4 properties of logs, 4.5 Exp/Log equations, 4.6 Modeling		<u>MOD 11 due WED 4/18</u> <u>MOD 12 due SUN 4/22</u>
4/23 – 4/27	Sec 9.1 systems of equations, Review for test # 4 Test #4 on Friday April 27th (chapter 4 and sec 9.1)		<u>MOD 13 due WED 4/25</u>
Mon 4/30	FINAL REVIEW		
Friday 5/4	FINAL EXAM (all chapters) 11am – 1pm in our classroom. This is a common final 40 questions multiple choice given by the math department.		