

Course: MATH 1111 College Algebra, Section 01 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 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

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

Office & Hours: Boyd 104C Tu/Th 8:30–8:55am, 11:30am-12pm, 1-1:55pm, 4:30-5pm

Class Meets:

- #1) Tuesdays/Thursdays 9 – 11:30am in Boyd 307
- #2) In UWG’s CourseDen for class information and communication
- #3) 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 N9LHJ-GEGWM to get the special UWG price, \$50.
You can also buy a binder version of textbook for \$25 through ALEKS website.
- #2: Get an ALEKS accesscode from bookstore or bundled with a textbook.
Use same course code as above.

***** 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 work Modules 1-13 (counts 30 %), ALEKS Quizzes (avg counts 30%, lowest dropped) Midterm and Final exams (multiple-choice, counts 40%). Must take syllabus quiz in CourseDen, which will count as attendance to avoid being dropped. Final grades are as follows:

89.5 % and higher	=	A
79.5 % to 89.4 %	=	B
70 % to 79.4 %	=	C
60 % to 69.9 %	=	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 exams 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 Tuesday 6/6. 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.

Last Date to Withdraw: Friday *June 23rd* Any student who withdraws after this date will receive a grade of “F”.

Class Rules: You are to turn off your cellular phone during the class. You are not allowed to use your phone as a calculator on exams. 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 <http://tinyurl.com/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/Wed/Fri 10am-2pm, Tue/Thu 10am-4pm
There are 2 tutors on duty who will rotate between students.
There are also textbooks and computers to use while you are in the tutoring center.

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 quiz).

Thu 6/1	Introduction, Sec R1, R2, R3, Aleks module 1	Exponents, Distributing/combining terms, radicals
Tue 6/6	Sec R4, R5, R6, Aleks module 2	Polynomials, factoring, rational expressions
Tue 6/6	Syllabus Quiz due in CourseDen, Initial Knowledge Check due in ALEKS.	
Thu 6/8	Sec 1.1, 1.2, Aleks module 3	Linear equations and applications
Fri 6/9	QUIZ #1 due in Aleks	
Tue 6/13	Sec 1.3, 1.4, 1.5, Aleks module 4	Radical equations, complex numbers, quadratic equations
Thu 6/15	Sec 1.6, 1.7, Aleks module 5	Radical equations, rational equations, inequalities
Fri 6/16	QUIZ #2 due in Aleks	
Tue 6/20	Sec 2.1, 2.2, 2.3, Aleks module 6	Coordinate Plane, distance, midpoint, circles, functions
Wed 6/21	QUIZ #3 due in Aleks	
Thu 6/22	quick review, <u>Take Midterm Exam</u> in class (multiple choice)	
Tue 6/27	Sec 2.4, 2.5, Aleks module 7	Linear functions, slope, graphs, parallel/perpendicular
Thu 6/29	Sec 2.6, 2.7, 2.8, Aleks module 8	Transformations of graphs, operations with functions
Tuesday July 4th, INDEPENDENCE-DAY - No Class		
Wed 7/5	QUIZ #4 due in Aleks	
Thu 7/6	Sec 3.1, 3.2, 3.3, Aleks module 9	Quadratic and polynomial functions and graphs
Tue 7/11	Sec 3.4, 3.7, Aleks module 10	Zeros of polynomials, direct/inverse variation functions
Thu 7/13	Sec 9.1, 4.1, Aleks module 11 and 12	Systems of equations, inverse functions
Fri 7/14	QUIZ #5 due in Aleks	
Tue 7/18	Sec 4.2, 4.3, 4.4, Aleks module 12 and 13	Exponential and Log functions
Thu 7/20	Sec 4.5, 4.6, Aleks module 13	Exp/Log equations and applications FINAL REVIEW
Thu 7/20	QUIZ #6 due in Aleks	

Friday July 21st FINAL EXAM (cumulative, multiple choice) 7:30 – 9:30am in our classroom.