

MATH 1111 - College Algebra

Hours Credit: 3 hours

Prerequisites: None

COURSE INSTRUCTOR

Instructor: Carrie Carmack
Office: Boyd 104
Email: ccarmack@westga.edu

OFFICE HOURS

Tuesday **Thursday**
1:00PM – 2:00PM **1:00PM – 1:30PM**

Students - I'm looking forward to working with you this semester! I hope this class will be challenging for you while allowing you to improve upon your strengths and weaknesses. Gaining appropriate study skills and time management skills while constructing new knowledge takes practice, commitment, and reflection. These are elements of learning that I consider in my classes and we work on improving them.

Coming to class and putting in effort to engage during and outside of class is going to be necessary for you to complete the course successfully. Here are a few do's and don'ts for the course:

DO	DON'T
Come to class	Don't arrive late/leave early – unless you have an emergency, please attend all of class. It is very disruptive when the class is interrupted, others and you may miss important info.
Engage with the Content During class	Don't ignore the lecture/activities during class – sometimes it is tough to focus and also takes practice. Eliminate obvious distractions (cell phone) by putting it them away. Try to focus and pay attention for the full 50 minutes.
Engage with the Content Out of class	Don't assume you know the material or assume that you cannot learn it – do the homework and practice. Seek tutoring if you need help, we have lots of great tutoring resources!
Be Kind To yourself and to Others	DO focus on your strengths and challenge yourself to improve. Don't be dishonest – don't cheat, don't lie.

REQUIRED COURSE MATERIALS

- 1) TEXT: *College Algebra and Trigonometry, Abramson, Openstax*. Student can download for free at <https://openstax.org/details/books/algebra-and-trigonometry>. Students should go to “Download a PDF” and download the High Resolution version.
- 2) Binder with notebook paper for taking notes.
- 3) Calculator. TI-89s or equivalent will not be permitted.

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.

Objectives	What it will accomplish
Express relationships using the concept of a function and use verbal, numerical, graphical and symbolic means to analyze a function.	Here, you will learn foundational mathematical applications, how to connect concepts, and how to identify what you can NOT do in mathematics.
Model situations from a variety of settings by using polynomial, exponential and logarithmic functions.	This objective will allow you to identify a model that best fits real world data. You can use this model to predict future phenomena or answer questions about current phenomena.
Manipulate mathematical information, concepts, and thoughts in verbal, numeric, graphical and symbolic form while solving a variety of problems which involve polynomial, exponential or logarithmic functions.	You will learn how to break difficult problems into smaller, easier to solve parts. You'll also learn how to express mathematical concepts in different ways.
Apply a variety of problem-solving strategies, including verbal, algebraic, numerical, and graphical techniques, to solve multiple-step problems involving polynomial, exponential, logarithmic equations and inequalities and systems of linear equations.	Here, you will learn how to become a better thinker. You will practice identifying problem solving techniques and apply them to find solutions to given problems.
Shift among the verbal, numeric, graphical and symbolic modes to analyze functions.	This objective will help you discover different approaches to problems and identify the best method of finding a solution.
Use appropriate technology in the evaluation, analysis and synthesis of information in problem-solving situations.	You'll learn how to use technology to compute faster, easier, and more accurately. However, you will also learn that technology could be a hinderance to your own understanding of a topic if relied upon.

COURSE ASSESSMENT

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

1. Class Participation: These will be in and out of class assignments. If it is an in-class assignment, the student must be present during the entire assignment. Class Participation assignments cannot be taken late. Since this is a condensed summer course, you may have multiple class participation assignments in one day.
***The lowest 3 class participation assignments will be dropped at the end of the semester.**
2. Homework: Homework will be given at the end of each class. Students must complete and turn in at the beginning of the following class. Homework can be submitted late for a 20 point deduction. All homework must be turned in before the final exam.
3. Exams: You will be given 4 in-class exams during the semester.
****If a student misses an exam, they may ask for an extension. If granted, the exam grade will incur an automatic 20-30 point deduction.**

***To take an exam late, the student must contact the teacher within 2 days of the exam and schedule the exam during office hours only. The student will not be given extra time to complete the exam.**

****A student's Final Exam grade will replace their lowest exam grade.**
4. Final exam: Students will have a comprehensive final exam. Students are required to take the final exam on their scheduled day.

****A student's final exam grade will replace the lowest test grade, if higher.**

ASSESSMENT GRADING:

Class Participation:	20%
Exams:	40%
Homework:	15%
Final Exam:	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

OTHER COURSE INFORMATION

*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.

* If a student is absent from class, it is their responsibility to catch-up on any missed material. Students will not be permitted to have a copy of the instructor’s notes. If a student is absent from class, contact the instructor via email for any announcements and topics covered.

COURSE POLICIES AND INFORMATION

University Policies and Academic Support

Please carefully review the following Common Language for all university course syllabi at the link:

https://www.westga.edu/administration/vpaa/assets/docs/facultyresources/common_language_for_course_syllabi_v2.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.

Academic Honesty

Any form of academic dishonesty will result in a failing grade for the assignment for the first offense (students will not be able to replace this grade). 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 courtesy are required of all students while in the classroom. The following is also mandatory:

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- 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.

IMPORTANT DATES:

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<u>First Day of Class:</u>	Monday, June 3
<u>Drop Ends:</u>	Tuesday, June 4
<u>Last Day to Withdrawal with W:</u>	Thursday, June 27
<u>Last Day of Class:</u>	Tuesday, July 23
<u>Final Exam Period:</u>	Thursday, July 25

Course Schedule

June 4 1. Exponential Expressions 2. Radical Expressions *Lecture, Class Participation, Homework	June 6 1. Factoring Polynomials 2. Rational Expressions *Lecture, class participation, homework
June 11 1. Complex Numbers 2. Review *Lecture, class participation, study review	June 13 – EXAM 1 1. Identify Equations 2. Linear Equations
June 18 1. Quadratic equations 2. Rational equations 3. Radical equations *Lecture, class participation, homework	June 20 1. Absolute Value Equations 2. Solving for a variable. 3. Inequalities 4. Modeling * Lecture, class participation, homework
June 25 – EXAM 2 1. Functions * Lecture, class participation, homework	June 27 1. Evaluating functions 2. Even/odd functions 3. Domain and Range * Lecture, class participation, homework
July 2 1. Common graphs 2. Transformations 3. Review * Lecture, class participation, study review	July 4 NO CLASS
July 9 - EXAM 3 1. Polynomial Functions * Lecture, class participation, homework	July 11 1. Rational Functions 2. Linear Functions 3. Quadratic Functions * Lecture, class participation, homework
July 16 1. Quadratic modeling 2. Circles 3. Review * Lecture, class participation, study review	July 17 – EXAM 4 1. Equation of a line 2. Parallel/Perpendicular * Lecture, class participation, homework
July 23 1. Systems of equations 2. Mixture 3. Log Basics	July 25 FINAL EXAM