

MATH 1111 - College Algebra

MW 2:00pm – 3:15pm Boyd 301

MW 3:30pm – 4:45pm Boyd 307

MW 5:30pm – 6:45pm Boyd 307

Hours Credit: 3 hours

Prerequisites: None

COURSE INSTRUCTOR

Instructor: Irina Pashchenko

Office: Library #311

Email: ipashche@westga.edu

Phone: TBD

OFFICE HOURS: In my office MW 12:45 pm-1:30 pm, TTh 5:15 pm-6:00 pm
In the Math Tutoring Center (Boyd 205) TTh 2:15 pm-2:45 pm

REQUIRED COURSE MATERIALS

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.

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. Express relationships using the concept of a function and use verbal, numerical, graphical and symbolic means to analyze a function.
2. Model situations from a variety of settings by using polynomial, exponential and logarithmic functions.
3. 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.
4. 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.
5. Shift among the verbal, numeric, graphical and symbolic modes in order to analyze functions.

6. Use appropriate technology in the evaluation, analysis and synthesis of information in problem-solving situations.

COURSE ASSESSMENT

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

Homework

All homework assignments will be completed online through the website

<https://www.myopenmath.com>. Be sure to understand all problems and be able to show all steps in the solutions. Homework is due by the chapter exam and will not be available afterward. The Course ID is printed in the MyOpenMath instruction that will be provided by me.

Tests

There will be four in-class tests. All tests will be taken during the regular class time in the regular classroom. Books and notes will not be allowed on any tests. Missed tests will receive a grade of 0. The lowest test grade will be dropped. **THERE WILL BE NO MAKE UPS.** We will have a review session before each test.

Final Exam

There will be a comprehensive final exam at the end of the semester given in the regular classroom. The exam will be given according to the schedule:

Mon December 10th 2:00pm – 4:00pm for the class that meets MW 2:00pm – 3:15pm

Wed December 12th 2:00pm – 4:00pm for the class that meets MW 3:30pm – 4:45pm

Mon December 10th 5:00pm – 7:00pm for the class that meets MW 5:30pm – 6:45pm

ASSESSMENT GRADING:

<i>MyOpenMath</i> Homework	30%
Exams	45%
Comprehensive Final	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. A calculator, which is a part of your cell phone, iPod, or any other electronic devices will not be allowed. You are not allowed to share calculator with any other party in your class during any in class tests or exams unless permitted by your instructor.

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. It is the student’s responsibility to catch-up on any missed material. It is your responsibility to get notes from your classmates.

COURSE POLICIES AND INFORMATION

University Policies and Academic Support

For important policy information, i.e., the UWG Honor Code, Email, and Credit Hour policies, as well as information on Academic Support and Online Courses, please review the information found in the Common Language for Course Syllabi documentation. 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.

https://www.westga.edu/academics/assets/docs/Common_Language_for_Course_Syllabi.pdf

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.

NOTE: ALL FORMS OF ACADEMIC DISHONESTY SHOULD BE REPORTED AND THE STUDENT NOTIFIED.

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:

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.

On campus resources:

Math Tutoring Center: Located in Boyd 205, MTC has a number of computers and some math tutors who can help you in studying math courses.

COURSE OUTLINE

Section	Title
1.2	Exponents and Scientific Notation
1.3	Radicals and Rational Expressions
1.4	Polynomials
1.5	Factoring Polynomials
1.6	Rational Expressions
2.1	The Rectangular Coordinate System and Graphs
2.2	Linear Equations in One Variable
2.3	Models and Applications
2.4	Complex Numbers
2.5	Quadratic Equations
2.6	Other Types of Equations
2.7	Linear Inequalities and Absolute Value Inequalities
3.1	Functions and Function Notation
3.2	Domain and Range
3.3	Rates of Change and Behavior of Graphs
3.4	Composition of Functions
3.5	Transformation of Functions
3.7	Inverse Functions
4.1	Linear Functions
4.2	Modeling with Linear Functions
5.1	Quadratic Functions
5.2	Power Functions and Polynomial Graphs
5.3	Graphs of Polynomial Functions
5.4	Dividing Polynomials
5.5	Zeros of Polynomial Functions
6.1	Exponential Functions
6.2	Graphs of Exponential Functions
6.3	Logarithmic Functions
6.4	Graphs of Logarithmic Functions
6.5	Logarithmic Properties
6.6	Exponential and Logarithmic Equations
6.7	Exponential and Logarithmic Models
11.1	Systems of Linear Equations: Two Variables
11.2	Systems of Linear Equations: Three Variables

Class Schedule:

08/15/18	INTRO
08/20/18	1.2/1.3
08/22/18	1.4
08/27/18	1.5/1.6
08/29/18	2.1/2.2
09/05/18	Review
09/10/18	TEST1
09/12/18	2.3/2.4
09/17/18	2.4/2.5
09/19/18	2.6
09/24/18	2.7/3.1
09/26/18	3.2/3.3
10/01/18	Review
10/03/18	TEST 2
10/08/18	3.4/3.5
10/10/18	3.5/3.7
10/15/18	4.1/4.2
10/17/18	5.1/5.2
10/22/18	5.3/5.3
10/24/18	5.4/5.5
10/29/18	Review
10/31/18	TEST3
11/05/18	6.1/6.2
11/07/18	6.2/6.3
11/12/18	6.4/6.5
11/14/18	6.6/6.7
11/26/18	11.1/11.2
11/28/18	Review
12/03/18	TEST4
12/05/18	Review

IMPORTANT DATES:

<u>First Day of Class:</u>	Wednesday, August 15
<u>Drop Ends:</u>	Friday, August 17
<u>Last Day to Withdrawal with W:</u>	Monday, October 8
<u>Last Day of Class:</u>	Friday, December 7
<u>Final Exam Period:</u>	December 8-14 (see The Scoop for specific times)
<u>No classes:</u>	Monday, September 3 (Labor Day)
	Thursday October 4 and Friday October 5 (Fall Break)
	Monday November 19- Friday November 23 (Thanksgiving)