



**MATH 1200: College Algebra Syllabus**  
**CHS Mathematics Department**

**Contact Information:** Parents may contact me by phone, email, or visiting the school.

**Teacher:** Miss. Megan Clark

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**Teacher Contact Websites:**

- Google Classroom

**CCSD Vision Statement:** The Chillicothe City School District will provide tomorrow's leaders with a high quality education by developing high expectations and positive personal relationships among students, staff, and community members.

**CCSD Mission Statement:** The Chillicothe City School District empowers students to learn, to lead, and to serve.

**Course Description and Prerequisite(s) from Course Handbook:**

**College Algebra - OU263 (College Credit Plus Course – Ohio University's Math 1200) (semester)**

**State Course #: 110099**

**Prerequisite:** College ready scores in English and Reading AND Qualifying Math score equivalent to a minimum of 20 on the Math ACT

**Elective**

**Grade: 9 -12**

**Weighted Grade**

**Credit: 1**

**Course Description:**

Students will Equations, functions and graphs, including linear equations and systems, polynomials, rational and radical expressions, quadratic equations, exponential and logarithmic functions, and inequalities.

**Learning Targets:** Defined below for clarity are the Unit Titles, Big Ideas of every Unit taught during this course, and the Essential Questions to be answered to better understand the Big Ideas. A student's ability to grasp and answer the Essential Questions will define whether or not he or she adequately learns and can apply the skills found in Big Ideas. This will ultimately define whether or not a student scores well on assessments administered for this course.

- 1st Quarter
  - **Unit I Title: Review of Prerequisites (R.1 - R.6)**
    - **Big Idea #1:** I can identify, express, evaluate, and graph using real numbers.
      - *Essential Question #1: How do I identify and write sets and subsets of the real number system?*
      - *Essential Question #2: How do I evaluate and apply algebraic expressions?*
      - *Essential Question #3: How do I apply the properties of exponents to perform calculations with scientific notation?*
      - *Essential Question #4: How do I evaluate and express rational exponents and radical expressions?*
    - **Big Idea #2:** I can identify, express, simplify, and factor polynomial, rational, and radical expressions.
      - *Essential Question #1: How do I perform operations with and simplify polynomial expressions?*
      - *Essential Question #2: How do I factor polynomial expressions?*
      - *Essential Question #3: How do I express and perform operations using rational expressions?*
      - *Essential Question #4: How do I express and perform operations using radical expressions?*
  - **Unit II Title: Equations and Inequalities (1.3 - 1.7)**
    - **Big Idea #1:** I can solve quadratic equations.
      - *Essential Question #1: How do I express, simplify, and perform operations using complex numbers?*
      - *Essential Question #2: How do I solve quadratic equations?*
    - **Big Idea #2:** I can I can apply equations and inequalities of various types to solve problems.
      - *Essential Question #1: How do I apply quadratic equations to solve problems?*
      - *Essential Question #2: How do I apply polynomial, rational, absolute value, and radical equations to solve problems?*
      - *Essential Question #3: How do I apply and solve linear and absolute value inequalities?*
  - **Unit III Title: Functions and Relations (2.1 – 2.8)**
    - **Big Idea #1:** I can identify, graph, and model functions.
      - *Essential Question #1: How do I graph equations on the coordinate grid and identify key features?*
      - *Essential Question #2: How do I find the distance and midpoint of a portion of a line?*

- *Essential Question #3: How do I write the equation of a circle?*
    - *Essential Question #4: How do I determine if a relation is a function?*
    - *Essential Question #5: How do I model linear functions to interpret data?*
  - **Big Idea #2:** I can transform, analyze, perform operations and compose function.
    - *Essential Question #1: How do I transform and identify transformations of functions?*
    - *Essential Question #2: How do I identify more key features of the graphs of functions?*
    - *Essential Question #3: How do I graph piecewise-defined functions?*
    - *Essential Question #4: How do I perform operations on and evaluate functions?*
    - *Essential Question #5: How do I compose or decompose functions?*
- **2nd Quarter**
  - **Unit IV Title: Polynomial and Rational Functions (3.1 – 3.3, 3.5, and 3.6)**
    - **Big Idea #1:** I can analyze and model polynomial functions.
      - *Essential Question #1: How do I model and use the key features of quadratic functions to solve problems?*
      - *Essential Question #2: How do I graph and determine key features of polynomial functions?*
      - *Essential Question #3: How do I use division and the remainder theorem for polynomials to determine factors?*
    - **Big Idea #2:** I can identify, analyze, and model various polynomial and rational functions and inequalities.
      - *Essential Question #1: How do I graph and determine key features of rational functions?*
      - *Essential Question #2: How do I apply and solve polynomial and rational inequalities?*
      - *Essential Question #3: How do I identify and model functions of different types of variation?*
  - **Unit V Title: Exponential and Logarithmic Functions (4.1 - 4.6)**
    - **Big Idea #1:** I can identify, graph, apply and evaluate inverse functions, exponential functions, and logarithmic functions.
      - *Essential Question #1: How do I identify and find inverse functions?*
      - *Essential Question #2: How do I graph and apply exponential functions?*

- *Essential Question #3: How do I graph and apply logarithmic functions?*
  - **Big Idea #2:** I can use properties of logarithms and exponentials to solve application problems.
    - *Essential Question #1: How do I use the properties of logarithms to simplify expressions?*
    - *Essential Question #2: How do I solve equations involving exponents and logarithms?*
    - *Essential Question #3: How do I use exponential and logarithmic functions to model real life situations?*
- **Unit VI Title: Systems of Equations and Inequalities (5.1 - 5.2)**
  - **Big Idea #1:** I can solve and apply systems of linear equations in two variables.
    - *Essential Question #1: How do I solve systems of linear equations in two variables?*
    - *Essential Question #2: How do I apply systems of linear equations in two variables to real world situations?*
  - **Big Idea #2:** I can solve and apply systems of linear equations in three variables.
    - *Essential Question #1: How do I solve systems of linear equations in three variables?*
    - *Essential Question #2: How do I apply systems of linear equations in three variables to real world situations?*
- **END OF COURSE EXAM**

### Course Materials:

- Google Chromebook
- Notebook
- Calculator

### Textbook:

- Miller, Julie, and Donna Gerken. *College Algebra*. 2nd ed., McGraw-Hill Education, 2017.

### Course Expectations:

- Be **RESPECTFUL** at all times.
- Employ the **4P's** every day.
  - Be **PROMPT!**
  - Be **PREPARED!**
  - Be **POSITIVE!**
  - **PARTICIPATE!**

Work from **BELL TO BELL**.

3 Before Me!  
 Be **HONEST!**  
**NEVER GIVE UP!**

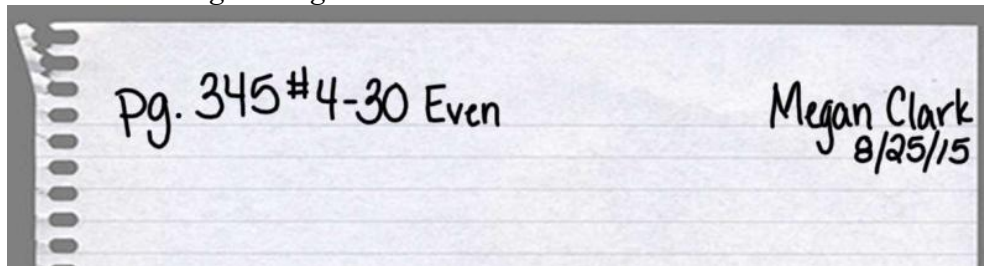
**Procedures:**

**Entering the Classroom:**

1. Enter **quietly** and sit down in your assigned seat.
2. Get out your Chromebook, notebook, pencil, and homework (if assigned) and start on your Bell Ringer (**BR**) up on the SMART Board.
3. You may quietly talk to the person next you **UNTIL THE TARDY BELL RINGS!**
4. Once finished with your **BR** wait quietly in your seat for us to go over it together.
5. **BR's are collected at the end of each week so make sure you keep them on a document separate from all other work and each *day* is clearly dated.**

**Heading your papers:**

- Top Left of the paper put the assignment.
- Top Right place your First and Last Name and the Date assigned.
- Ex. If assigned Pg. 345 # 4-30 Even



**Turning in Homework and Assignments:**

1. Look to make sure you headed the paper correctly.
2. You will be asked to place all assignments in the appropriate colored folder on the table by the door.
  - a. 1<sup>st</sup> Period: Orange
  - b. 2<sup>nd</sup> Period: Green
  - c. 3<sup>rd</sup> Period: Blue
  - d. 5<sup>th</sup> Period: Gray
  - e. 6<sup>th</sup> Period: Purple
  - f. 7<sup>th</sup> Period: Red
    - More than one page:
      - a. Students need to make sure their name is on all pages.
      - b. Students are to quietly get up and go to the teacher's desk.
      - c. They are to staple all the pages together in the correct order.

**Taking Notes:**

Students are to have a notebook and a pencil with them to take notes.

**Pencil Sharpening/Getting a Tissue:**

- Students can quietly get up one at a time to grab a tissue or pencil at anytime, unless if testing, and sit back down without bugging or talking to anyone else. **If testing the student needs to ask for permission first.**
- If the teacher or anyone else is up talking:
  - Student needs to walk to the back of the classroom and around by the computers up to the electric sharpener by on the white shelf, and take the same trip back. This way you are not distracting others by crossing in front of the board or the person talking.

There is a trash can beside my desk so students do not need to walk all the way across the room to throw their tissues away.

**USE HAND SANITIZER AFTER BLOWING YOUR NOSE!** We don't want your germs, and I will call you out in class and make you go back and use it.

**Tests and Quizzes:**

1. Once the tardy bell rings, students will need to clear their desks of everything but a blank scrap piece of paper, their assigned calculator, and a pencil. All other things need to be placed at the front of the room and this includes cell phones!
2. **There is to be no talking at all!** Unless the teacher has given permission to do so, for instance if you have raised your hand to ask a question. All other talking will be considered cheating and will result in the test being taken and the student given an F.
3. Once finished with the test they are to put their test/quiz in their class's folder.
4. **No electronic devices except for the calculator will be permitted during a test!** If seen it will be considered cheating and the test or quiz will be taken from the student and they will be given an F.
5. **Making up a test or quiz is the student's responsibility!** If they are absent on the day of a test or quiz the student is to come to Miss. Clark either at the very beginning or very end of class to setup a time to take it. **I will not chase down students to take tests!** If they forget to make it up they will receive an F for the Test or Quiz!

**Electronic Devices:**

1. Students will be required to have their electronic devices, cell phones, iPods, mp3 players, and etc., in their bag or in the holder by the door.

2. Students will only be allowed to use them when instructed for class use.
3. Students may use their devices to independently listen to music during their work time in class, as long as they are working. **If this power is abused and students begin to listen with no work I will take the privilege away permanently.**
4. Students will not be permitted to listen to music during instructional time. All ear buds should be out of ears!

### **Graded Assignments:**

With the exception of test and quizzes all graded assignments will be placed in the student's period Crate, crates are under the assignment board. Students will be given the opportunity to go over and get their graded assignments during any free time they have in class. This box will be cleared out and papers will be trash after every quarter.

All tests and quizzes will be passed back out by Miss. Clark, once all students have finished or made up the test or quiz. Tests and quizzes will not be passed back until that time. In addition, students will not be allowed to keep their tests and quizzes. They will be recollected after students have been able to ask their questions.

### **Books:**

Students assigned a book. Books will be kept in their subject's cabinet in my room. They will be able to use the online book for homework and any work outside of the classroom. If in a class they do not have an online book they will be permitted to take their book home with them every day.

**For classes without an online book:** If a student does decide to leave their books in my room they are still responsible for it! So if it gets lost or damaged while in my room it is not my responsibility to replace it, it is that student's and his or her guardian's responsibility. So, store at your own risk!

### **Grading:**

Your grade will be calculated using the following weights:

Online Homework 10%

Quizzes 25%

Exams 40%

Final Exam 25%

***\*You must show all of your work on your quizzes/exams to receive full credit. If you do not show all of your work you may receive very little credit, even if you have the correct solution.***

**Grading Scale:**

A	=	93 – 100 %	C	=	73 – 76 %
A-	=	90 – 92 %	C-	=	70 – 72 %
B+	=	87 – 89 %	D+	=	67 – 69 %
B	=	83 – 86 %	D	=	63 – 66 %
B-	=	80 – 82 %	D-	=	60 – 62 %
C+	=	77 – 79 %	F	=	below 60 %

**Late Work:** Late work will be subject to the following policy which was agreed upon by the instructor and the Dean of Ohio University Chillicothe.

- Regardless of the absence type (excused, unexcused, OSS, etc.), students are expected to make up work and be held accountable for learning all material they missed.
- Any student who is absent from school will receive one (1) additional day for every day he/she missed to make up his/her work for full credit (100%).
- Any student who exceeds the allotted time to turn in an assignment for full credit may still submit work late for partial credit up to 2 class days.

**Academic Integrity:**

Cheating will not be tolerated. If you are caught cheating you will receive an F for the course and your case will be turned over to the university authorities for further disciplinary action.

The Student Code of Conduct, which applies to all OU students, can be found on-line at [http://www.ohio.edu/judiciaries/conduct\\_policy.cfm](http://www.ohio.edu/judiciaries/conduct_policy.cfm). It is a good idea for every student to read this. I would also recommend reading the OU Student Handbook at <http://www.ohio.edu/students/handbook/policies/index.cf>, so that you are aware of your rights and responsibilities as a student. Follow the links on that page to access the whole handbook.

**Statement from Institutional Equity:**

*In compliance with the Americans with Disabilities Act (ADA), all students who have a documented disability are entitled to reasonable academic accommodations. If you are a student with special needs, it is your responsibility to be registered with the Institutional Equity representative here in Student Services. In addition, you need to inform your instructors each quarter before the end of the second week of class.*



**Performance Based Section: Writing Assignments/ Exams/ Presentations/  
Technology**

One or more of the End of Unit Exams may be Performance Based. According to the Ohio Department of Education, “Performance Based Assessments (PBA) provides authentic ways for students to demonstrate and apply their understanding of the content and skills within the standards. The performance based assessments will provide formative and summative information to inform instructional decision-making and help students move forward on their trajectory of learning.” Some examples of Performance Based Assessments include but are not limited to portfolios, experiments, group projects, demonstrations, essays, and presentations.

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After you have reviewed the preceding packet of information with your parent(s) or guardian(s), please sign this sheet and return it to me so that I can verify you understand what I expect out of each and every one of my students.

Student Name (please print): \_\_\_\_\_

Student Signature: \_\_\_\_\_

Parent/Guardian Name (please print): \_\_\_\_\_

Parent/Guardian Signature: \_\_\_\_\_

Date: \_\_\_\_\_