

**College Algebra Honors Syllabus
2019 - 2020**

"Truth is ever found in the simplicity, and not in the multiplicity and confusion of things." ~~~ Sir Isaac Newton

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|--------------------------|---|
| Instructor: | Mrs. Meyer |
| School: | Lexington High School |
| Room: | 804 |
| Telephone: | 308-324-4691 ext. 2804 |
| E-mail Address: | sandy.meyer@lexshools.org |
| Course Length: | 2 semesters |
| Semester Credits: | 10 credits (5 credits per semester) |
| Tutoring Hours: | Community Room 3:30 - 4:30 pm (Mon - Thurs) Before school - 7:15 - 7:45 am by appointment with at least one day of prior notice - <u>MUST</u> obtain a pass from me. |

Introduction: Welcome to College Algebra Honors. I value the opportunity that I have to teach you the requirements that you will need to master in order to receive a passing grade. I look forward to teaching you and helping you develop the skills necessary to be successful in college and beyond. I hope to help you see math as a tool for your future's success and enjoy this class. An understanding of the concepts of algebra and the ability to use mathematics are fundamental skills of a well-educated individual.

Course Description: This course is a full high school academic year of work. This course will enable the student to work and solve mathematics and quantitative problems involving functions and graphs, the algebra of functions, inverse functions, linear functions, exponential and logarithmic functions, quadratic and other polynomial functions and their zeros, rational functions, circles, absolute value equations and inequalities, radical equations, rational equations and inequalities, quadratic inequalities, systems of equations and inequalities.

Required Textbook: Lial, Hornsby, Schneider, Daniels; *College Algebra (2017)*
12th Edition, Pearson

Units of Study:

1. Fundamental Concepts of Algebra
2. Equations and Inequalities
3. Functions and Graphs
4. Polynomial and Rational Functions
5. Systems of Equations and Inequalities
6. Matrices
7. Exponential and Logarithmic Functions

Recommended Materials:

1. Lined paper and graph paper
2. Pencils with erasers (**ALL** homework, assignments and exams **MUST** be completed in pencil.)
3. Pen - any color except black or blue.
4. A graphing calculator (if you do not have one, you will be assigned one that will be returned at the end of the school year in working order; you will need to supply your own batteries ... 4 AAA and one lithium battery)
5. 2-inch three-ring binder with labeled dividers used for **MATH ONLY!!!**
6. Composition notebook

Grading Criteria:

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| Tests | 40% |
| Quizzes | 25% |
| Homework | 20% |
| Participation/ Classwork/Notes | 15% |

Grading Scale:

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|---|------------|
| A | 93% - 100% |
| B | 85% - 92% |
| C | 77% - 84% |
| D | 70% - 76% |

Semester Grade:

| | | | |
|-----------|-----|-----------|-----|
| Quarter 1 | 45% | Quarter 3 | 45% |
| Quarter 2 | 45% | Quarter 4 | 45% |
| Final | 10% | Final | 10% |

Class Rules:

1. Respect: Everyone and Everything
2. Come to class prepared: Mind and Materials ... Wearing proper dress code attire with LHS lanyard visible around your neck when entering the classroom and remain until dismissed by the teacher

3. Always follow directions
4. **NO CELL PHONES, FOOD, GUM, CANDY, OR DRINKS!!!** (Exception is a clear container that may contain water)
5. Be on time and in your seat by the time the bell rings
6. **Bring a fully-charged iPad to class every day**
7. Raise your hand and wait to be recognized before speaking
8. Bathroom passes will be issued on an individual basis and for emergencies only
9. **All Rules in the Student Handbook apply!!!**

Absences:

Upon returning from an excused absence, the student is responsible for turning in current assignments along with obtaining and completing the new missed assignments. You will be given as many days as you are excused absent to make up your work. If a student fails to complete missing assignments in the required time allowed, the assignment will be recorded as a zero. To keep your notes updated, you will need to copy notes from a classmate.

If you will be absent for a school activity, the assignment due the day of the activity must be turned in prior to going to the activity. If the assignment has not been turned in, a zero will automatically be recorded. You are responsible to have the assignment that was given the day of the activity completed by the day when it is due.

It is the student's responsibility to find out what was missed and to turn in any missing work. If you had an absence on a review day, **you will NOT be excused from taking the test or quiz!!** It is your responsibility to get notes for the days you missed.

Homework:

Homework is an opportunity for you to make mistakes and learn. Homework assignments will be graded on completion sometimes. Other times I will collect homework to be graded based on accuracy and work. Homework consists of 20% of your quarter grade. Homework will be checked and turned in at the beginning of class.

Homework will be assigned **DAILY**. I will decide based on how relevant that homework is which to include in PowerSchool grade book for a grade on a **WEEKLY** basis. **LATE** homework is not accepted.

Notes:

You will take notes almost every day except assessment days and all your notes, along with quizzes will be collected for a grade at the end of a chapter. This activity reinforces learning and provides examples for you to use when doing your homework.

Notes must be completed for credit. You will be required to keep all notes from the class in an organized way, through the use of a 3-ring binder. It is up to you to keep these materials organized. This syllabus will be part of all note checks.

Warm ups will be a daily routine. Use your composition notebook for these. Every two weeks the warm up material will be turned in for a grade.

Class notes and warm ups along with participation will consist of 15% of your quarter grade.

Participation:

Every student is important in my class and your knowledge is valuable. You are expected to actively participate and stay engaged. Students are accountable for participating every day for every grading period. Participation is important because it validates whether the concepts are being learned correctly. Participation points can be taken away for distributive behavior that impedes on classroom instruction time. Everyone is encouraged to form a study group for additional support outside of school time. In order to be successful you must dedicate time outside of class to study and review. I am more than happy to facilitate your learning, but you must take a hands-on approach to your learning and participate actively.

Pop Quizzes, Warm Ups and Exit Tickets:

Warm ups are daily problems given at the start of class. You will be assessed on a regular basis for completion and accuracy. All work must be shown to receive full credit. Pop quizzes will not be announced. They are short and similar to the warm ups or exit tickets. They are also checked based on completion and accuracy, and all work must be shown to receive credit. Pop quizzes and warm ups provide you with quick feedback on your understanding of a particular lesson or topic. Exit tickets will be given daily. They provide me with data to drive my instruction based on your understanding of the day's lesson.

Quizzes and Tests:

Quizzes consist of 25% of your quarter grade and tests consist of 40% of the quarter grade. The day of the assessment will always be announced except for the pop quiz. A normal mathematical quiz will be given about halfway through each chapter. A vocabulary and concept quiz will be given near the end of the chapter to assess your knowledge of new terminology in the course. Tests will be at the end of the chapter and will cover material for that chapter, but may have some material from previous chapters.

Cheating:

If there is any evidence of cheating, you will receive a zero for that work. Your parents and administrator will be notified concerning your conduct.

Cheating consists of:

1. Copying another student's work
2. Taking a picture of material to try to use on an exam
3. Leaving work out where you or other students may view it during an exam
4. Having another student complete your work
5. "Helping" another student complete an exam
6. Using the Internet to solve your problems instead of asking for help