College Algebra - Expanded

**COURSE SYLLABUS**

Teacher: Mrs. Kristen August

Room: 9

Planning Period: 1st Semester: 12:24 – 1:24,

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1. **CATALOG DESCRIPTION**

MTH 127 – College Algebra – Expanded Version

This course is intended to be a brief but careful review of the main techniques of algebra. Topics will include polynomial, rational, exponential, and logarithmic functions as well as graphs, equations, inequalities, and sequences.

College algebra is a requirement for various undergraduate programs. MTH 127 is one of the options of college algebra available.

You must have a strong foundation in previous mathematics courses in order to be prepared for the demanding work that will be required of you throughout the semester.

1. **ORGANIZATION**

Topics will be presented using a laptop, iPad, digital projector, document camera, Apple TV, and graphing calculator. While the class is fast-paced, many examples will be demonstrated before you will be assessed on a particular topic. Quizzes and/or tests will be given weekly.

Your success in this class will greatly depend on your active participation both inside and outside of class. Note-taking and participation are essential during class. Outside of class, you need to be willing to set aside 15 – 45 minutes of study time per day for review or homework completion.

The material you learn each day will build on the material you have learned previously. Therefore, it is imperative that you keep up with your course work and develop a clear plan of study. Before each class you should review the previous day’s notes and examples and make notes of anything you do not understand.

Another matter of importance is keeping up. It is very easy to fall behind, especially if you miss class. To keep up with the course work, you need to attend class every day, participate in class, and do your homework.

1. **COURSE TOPICS**
2. Solving Equations and Inequalities
3. Analytic Geometry
4. Functions
5. Function Families
6. Linear
7. Quadratic
8. Cubic
9. Polynomial
10. Square root
11. Cube root
12. Absolute Value
13. Piecewise
14. Rational
15. Exponential
16. Logarithmic
17. Systems of Equations
18. Applications
19. **SUPPLIES**

It would be beneficial for you to have a pen/pencil, notebook, 3-ring binder, and a graphing calculator (There is a classroom set of graphing calculators for use at school. However, they will not be allowed for home use. You can purchase your own or download a free graphing calculator app on your iPad.)

1. **GRADING PLAN**

Grades will be as follows:

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| --- | --- |
| 1. Homework | 1 -5 points per assignment (Bonus Points) |
| 1. Questions of the Day | 100 points |
| 1. Activities | 100 points |
| 1. Quizzes | 100 points |
| 1. Tests | 100 points (Tests count two times) |

1. **Grading Scale**

**Marshall University:** 90 – 100 A **Raleigh County Schools:** 90 – 100 A

80 – 89 B 80 – 89 B

70 – 79 C 70 – 79C

60 – 69 D60 – 69 D

0 – 59 F 0 – 59 F