

Ms. Lindsey Murt

Room 405

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Algebra 2 Prerequisites: Algebra 1 and Geometry School Year: 2016-2017

**Requirement for credit:** Complete all class work with a 70% or greater.

**Catalog description:** In addition to expanding the mathematical concepts of Algebra 1, emphasis is placed on preparation for the study of higher mathematics, abstract thinking skills, the function concept, and algebraic solutions of problems in various content areas. Topics include the complex number system and matrices, quadratic equations and inequalities, graphs of functions and relations, exponential and logarithmic functions, progressions and series, the binomial theorem, linear programming, and introductory work in conic sections, probability, and trigonometry. Appropriate use of calculators and computers is integrated throughout the course.

**Materials Needed:**

* 3 ring binder and loose leaf paper OR spiral notebook and folder
* Pencils (No pens!!!)
* Graphing Calculator (TI-83+, TI-83 SE, TI-84, or TI-84 SE)
* 4 AAA batteries for the calculator

**Grading:**

*Daily Work (10%)*: Assignments in this category will be graded based on completion and accuracy. In order to receive full completion credit, students should attempt ALL of the assigned problems, show their work, and turn the assignment in on time. Not all assignments will be taken up for a grade, but students will still be responsible for knowing the material. Daily grades will not necessarily be taken on the homework itself but from comprehension checks given in class over the homework from the previous day.

*Quizzes (25%):* Quizzes will be used to assess student learning leading up to each unit test. Some quizzes will have calculator restrictions. All major quizzes will be announced in advance. Students will not be allowed to use their notes, homework or textbook for these. Homework check quizzes and notebook quizzes will also be given and may be unannounced. Students may use their notes for these quizzes.

*Tests (50%):* Tests will be given at the end of each unit. All tests will be announced. Tests are worth 100 points. Retakes may be allowed at teacher discretion if the requirements for a retake (see attached sheet or class website) are met.

*Midterm Exam (5%):* The midterm exam given over the first semester of material will count for 5% of your overall grade.

*End of Course (10%):* The end of course assessment issued by the state counts for 10% of your overall grade.

**Make-Up Work:**

Make-up work only applies to absent students. If you have an excused absence, you will be given the number of days you missed, plus one day to make up your work. It is your responsibility to find out what you missed and copy the notes for that day. If your homework is not turned in on time, you will not receive credit. If you have to make up a test or quiz, a different form may be given so that tests can be returned to other students in a timely manner.

**Tutoring:**

Students may stay after school on designated days or come in early any morning for tutoring. I am typically here by 7:45 each morning. Students will also be able to participate in the ESS program which will have established hours once school begins. This is a great time to get questions answered, get homework help, prepare for a test or retake a test. Take advantage of this opportunity from the beginning. Do not wait until you are completely lost and behind in your work to ask for help!

**Expectations and Strategies for Success:**

* Be Punctual. (Be in your assigned seat when the bell rings.)
* Be Prepared. (Bring all materials to class each day. Do all work in pencil.)
* Be Productive. (Stay on-task and actively participate in class. Ask Questions!)
* Be Positive. (Don’t give up when faced with a challenge!)
* Be Polite. (Show respect to your teacher, classmates, and classroom.)

**Content Covered:**

* Unit 1: First Degree Equations and Inequalities
* Unit 2: Polynomial, Rational, and Radical Equations and Inequalities
* Unit 3: Modeling with Functions
* Unit 4: Inferences
* Unit 5: Trigonometry