



# Dickinson High School Course Syllabus



## Algebraic Reasoning

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**Teacher:** Nereyda Garcia

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**Phone:** 281-229-7862

**Conference:** 11:10 AM-12:00 PM

**Tutorials:** 3:00-3:30 PM Tu/Th

**Materials Needed:** TBD

**Course Description:** In Algebraic Reasoning, students will build on the knowledge and skills for mathematics learned in Kindergarten-Grade 8 and Algebra I, continue with the development of mathematical reasoning related to algebraic understandings and processes, and deepen a foundation for studies in subsequent mathematics courses. Students will broaden their knowledge of functions and relationships, including linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value, and logarithmic functions. Students will study these functions through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data using tools that build to workforce and college readiness. The units are as followed:

Unit 1- Linear Functions

Unit 2- Quadratic Functions

Unit 3- Exponential Functions

Unit 4- Other Non-Linear Functions

Unit 5- Inverse of Functions

Unit 6- Comparing and Contrasting  
Functions

Unit 7- Function Operations

Unit 8- Operations and Compositions of  
Functions

Unit 9- Decomposition of Polynomial  
Functions

Unit 10- Solutions of Equations

Unit 11- Matrices

**Grading Policy:** All nine-week averages shall be calculated on a percentage system for each category of assignments.

**Formative Assignments/ Assessments**                      **50%**

- Assignments in this category may include: class work, class participation, homework, notes, quizzes, and other similar assignments.

**Summative Assessments (Major Grades)**                      **50%**

- Assessments will include: unit test, projects, 9-week curriculum based assessments, and other similar assignments.

**Absences:** In the event you are absent, it is **your responsibility** to collect and make-up all work as soon as possible. For each day out, you have one day to make up missing work.

**Assignments and Late Work:** Students will be expected to take notes in class. If an assignment or worksheet is given, they will either be given class time to work on it or be required to complete the assignment outside of class. Most of the time students will get two days to complete the assignment unless stated otherwise by the teacher. Grading of assignments can be done in class the day they are due, so it is very important that work is completed on time. If a student does not turn in an assignment on the due date it is considered late and may not receive full or any credit depending on when it is turned in.

**Phones:** Phones are **NOT** allowed to be used in the classroom. They are to be placed in the assigned pocket where calculators will be, **NOT** on their desk while in the classroom. Phones will be taken up if **out in the classroom at any time**. This includes just checking time or using the calculator on their phone.

- **On a testing day, students will be required to turn in phones and other electronic devices to the teacher in order to take the test.**
- **If a phone is found in the student's possession during a test or quiz the student will receive a zero on the assessment.**

**Calculators:** A TI-Nspire™ CX Handheld will be provided for students to use in class when prompted to. Each student will have an assigned calculator to use during the class period. If something were to happen to the calculator, the student is to report it to the teacher immediately. If a student causes any damage to the calculator, they may be responsible for replacing it or paying a fine of \$120.00. It is recommended that students who would like to purchase a calculator purchase a **TI-Nspire™ CX Handheld**.

**Expectations for Success:**

- Come to class every single day, on time, with your materials and ready to pay attention and learn!
- Ask questions! Come to tutorials for help if a lesson is challenging for you. **DO NOT** wait until the day before a test or quiz.
- Participate in class, complete the work that is assigned.
- Follow the rules and expectations of Dickinson High School, as I will be following and upholding them in my classroom! (Electronics, dress code, tardiness...)
- Be respectful of the classroom and all within it.