



We, the members of the Crosby High School Community are committed to providing a safe and welcoming environment that promotes a creative, innovative, and intellectually challenging learning experience to ensure that all students are prepared to become college and career ready in order to be productive members of a diverse society.

CROSBY HIGH SCHOOL COURSE SYLLABUS

Crosby Course Number & Title: 301 - Algebra 1

Instructor's Name: Mrs. Jennifer Desiderio

Semester & Year: Full Year 2018-2019

COURSE DESCRIPTION

"This course applies critical thinking skills needed to solve real world problems. It covers patterns and sequences, all types of linear equations and inequalities in one variable, systems of equations, quadratic functions, and an introduction to exponential functions. Coordinate geometry will be integrated into the investigation of these functions. Students learn how to use a graphing calculator in order to stay current with modern technological trends. Content is aligned to the Connecticut Core Standards and the new SAT."

Students will also explore the use of spreadsheets and web-based learning tools such as Desmos, Khan Academy, and other tools as needed. As much as possible, we will utilize problem-based learning to immerse students in real-world learning and use of mathematics.

COURSE GOALS/LEARNING OBJECTIVES

Algebra 1 focuses on identifying patterns within real-world situations and modeling these patterns using different types of functions. At the end of this course, students will have an understanding of solving multi-step equations, identifying, creating, working with, and solving linear functions, creating, working with, and solving systems of linear functions, identifying, creating, working with, and solving exponential functions, identifying, expanding, factoring, and solving quadratic functions. Students will be able to model real-world situations with each of these types of functions and use them to solve problems as well as use appropriate technology to solve problems.

Learning targets for each lesson will be stated at the beginning of each class so students clearly understand what they will be learning for the day. At the end of class, students will have time to reflect on whether or not they have met the learning target.

We will examine eight units of study with a focus on the following mathematical practices:

Math Practices

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

The units of study we will cover are:

Unit 1 - Patterns - both Arithmetic (linear) and Geometric (exponential)

Unit 2 - Linear Equations and Inequalities
Unit 3 - Functions
Unit 4 - Linear Functions
Unit 6 - Systems of Linear Functions
Unit 5 - Scatter Plots and Trend Lines
Unit 7 - Introduction to Exponential Functions
Unit 8 - Quadratic Functions and Equations

(More information on the units studied and the standards covered in each unit are available at http://ctcorestandards.org/?page_id=6311)

REQUIRED TEXTBOOK AND MATERIALS

Students will not be using a textbook in this class. Our curriculum utilizes printables and packets that students will receive in class. These will also be available online in Google Classroom for students to print on their own or to complete online. Links to pertinent resources will be posted online in Google Classroom, and occasionally, hard copies of helpful references and resources will also be handed out for students to include in their notes.

Students will need pencils, pens, highlighters, and a 3-ring binder with paper and 5 section dividers to help them stay organized in class. One section will be for notes, one for homework, one for handouts and work that has been passed back (yes, I expect students to keep work that I evaluate and pass back!), and one for a journal. Reading and writing are an integral part of learning mathematics, so students will be expected to reflect and write about their learning in math class.

COURSE POLICIES

- Attendance and Tardy Policy
 - Attendance Policy: Please refer to the district policy located on the Crosby website or in the student handbook (<https://goo.gl/nSz4er>)
 - Students who are tardy to a class 3 times will serve a detention issued by the classroom teacher. Each subsequent tardy will be a referral to the office for disciplinary action.

- Late Work Policy
 - Refer to district grading policy or see the link at the bottom of the page.

- Academic Dishonesty - Academic dishonesty shall in general mean conduct which has as its intent or effect the false representation of a student's academic performance, including but not limited to:
 - a. Cheating on an examination
 - b. Collaborating with others in work to be presented, contrary to the stated rules of the course
 - c. Plagiarizing, including the submission of others ideas or papers (whether purchased, borrowed or otherwise obtained) as one's own
 - d. Stealing or having unauthorized access to examination or course materials
 - e. Falsifying records, laboratory or other data
 - f. Submitting, if contrary to the rules of a course, work previously presented in another course
 - g. Knowingly and intentionally assisting another student in any of the above, including assistance in an arrangement whereby any work, classroom performance, examination or other

activity is submitted or performed by a person other than the student under whose name the work is submitted or performed.

Students should not give or receive aid during examinations, quizzes, tests or lab assignments. Students should not use answers to examinations, quizzes and tests written on cheat sheets, clothing or body parts, or obtained from others who have taken the same test prior to them. Students should not use in any written work, without proper acknowledgement, the wording of any sentence or part of a sentence of another author without acknowledgement of the original author. Students should not use calculating devices during tests where calculators are not permitted.

Plagiarism according to The American Heritage Dictionary of the English Language, Fourth Edition, 2000, is “1. A piece of writing that has been copied from someone else and is presented as being your own. 2. The act of plagiarizing: taking someone’s words or ideas as if they were your own.” If you copy another’s work in a paper, for instance, you must put the copied material in quotation marks and footnote or endnotes. If you restate the language or thoughts of another in your own words, you are paraphrasing. Omit the quotation marks, but footnote or endnote the original source. Not to attribute the idea to the original person is to plagiarize. In general, it is better to acknowledge too many sources than too few.

Plagiarism, as defined above, is considered a serious academic offense. According to Connecticut statute, plagiarism is a criminal act and classified as a Class “B” misdemeanor. The teacher, in conference with an administrator, will exercise his/her professional judgment when determining an appropriate penalty for a project that has been plagiarized. The nature of the penalty should be relative to the magnitude of the offense. Examples of penalties that will be invoked are: a zero for the project, an “F” for the course, and/or referral to the proper authorities. The teacher and administrator will determine if the student may be permitted to complete the paper properly, or write an entire new paper properly. These and other penalties will not be imposed when the classroom teacher determines that the sources in a paper have been mis-cited. The teacher with the administration will determine the extent of grade reduction and possible suspension or referral to authorities. (Obtained from Tunxis Community College Handbook)

CODE OF CONDUCT

- Profanity
 - The use of profanity in school is unacceptable and can result in an office referral.
- Cell Phone Usage Policy
 - Cell phones **MUST BE** off and away other than when approved by the teacher for academic purposes
 - 1st offense: Confiscate, warning and notify parent, return to student at the end of the school day.
 - 2nd offense: Confiscate, in school suspension or after school detention, item to be returned to parent/legal guardian only at the end of the school day.
 - 3rd offense: Confiscate, out of school suspension, item to be returned to parent/legal guardian only at the end of the school day. (<https://goo.gl/FMxNyt>)
- Disposition Toward Learning

COURSE GRADING (Per District Policy)

60% Assessments

20% Classwork

10% Disposition Toward Learning

10% Homework

Student/Parent Handbook: <https://goo.gl/rsFr95>