CROSBY HIGH SCHOOL COURSE SYLLABUS

Crosby Course Number & Title: Algebra 2 - 320 K
Instructor's Name: Mrs. Wainwright-Staton
Semester & Year: Full Year 2018-2019

<u>**COURSE DESCRIPTION**</u>
<u>**320K ALGEBRA II ACE**</u>
<u>**CREDIT: 1.00**</u>
Prerequisite: Successful completion of Algebra 1 and Geometry
Prerequisite: Grade of B or better in Geometry Honors or Geometry ACE or Grade of A in Geometry This rigorous, accelerated course provides students with opportunities to interpret, evaluate, and develop models that describe real world phenomenon. Topics studied in this class include quadratic function, exponential and logarithmic functions, trigonometric functions, and polynomial functions. Advanced features of the graphing calculator are incorporated into the course work, as well as real life problem solving and applications of Algebra II in various fields such as engineering and the sciences. Preparation for the SAT is an important part of Algebra II Honors and Algebra II ACE.

<u>**COURSE GOALS/LEARNING OBJECTIVES**</u>
Unit 1: Functions and Their Properties
Unit 2: Quadratic Equations and Complex Numbers
Unit 3: Polynomial Functions
Unit 4: Rational Expressions and Functions

Mathematically proficient students start by explaining to themselves the meaning of a problem and looking for entry points to its solution. They analyze givens, constraints, relationships, and goals. They make conjectures about the form and meaning of the solution and plan a solution pathway rather than simply jumping into a solution attempt. They consider analogous problems, and try special cases and simpler forms of the original problem in order to gain insight into its solution. They monitor and evaluate their progress and change course if necessary. Older students might, depending on the context of the problem, transform algebraic expressions or change the viewing window on their graphing calculator to get the information they need. Mathematically proficient students can explain correspondences between equations, verbal descriptions, tables, and graphs or draw diagrams of important features and relationships, graph data, and search for regularity or trends. Younger students might rely on using concrete objects or pictures to help conceptualize and solve a problem. Mathematically proficient students check their answers to problems using a different method, and they continually ask themselves, "Does this make sense?" They can understand the approaches of others to solving complex problems and identify correspondences between different approaches.

REQUIRED TEXTBOOK AND MATERIALS

Algebra 2, Applications-Equations-Graphs, Larson, Boswell, Kanold, Stiff.

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