

# DURANGO HIGH SCHOOL

## COURSE EXPECTATIONS

### 2019-2020

## Algebra 2

**Mrs. Tia Price**  
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### Course Description

This one-year course provides students with a study of functions and statistics, including advanced topics. It incorporates problem solving, reasoning, modeling, and effective communication skills through the study of polynomial, rational, radical, exponential, logarithmic, and trigonometric functions; the design of statistical studies; and statistical inference. Instructional practices incorporate integration of diversity awareness including appreciation of all cultures and their important contributions to society. The use of mathematical tools and technology, including calculators and computer software, is an integral part of this course. This course fulfills one of the mathematics credits required for high school graduation.

### Course Goals

Upon completion of this course, the students will be able:

1. To develop the Standards for Mathematical Practice.
2. To perform arithmetic operations with complex numbers and use complex numbers in polynomial identities and equations. [N.CN]
3. To interpret the structure of expressions and write expressions in equivalent forms to solve problems. [A.SSE]
4. To perform arithmetic operations on polynomials; understand the relationship between zeros and factors of polynomials; use polynomial identities to solve problems; and rewrite rational expressions. [A.APR]
5. To create equations that describe numbers or relationships. [A.CED]
6. To understand solving equations as a process of reasoning and explain the reasoning; and represent and solve equations and inequalities graphically. [A.REI]
7. To interpret functions that arise in applications in terms of the context and analyze functions using different representations. [F.IF]
8. To build a function that models a relationship between two quantities and build new functions from existing functions. [F.BF]
9. To construct and compare linear, quadratic, and exponential models and solve problems. [F.LE]
10. To extend the domain of trigonometric functions using the unit circle; model periodic phenomena with trigonometric functions; and prove and apply trigonometric identities. [F.TF]
11. To summarize, represent, and interpret data on a single count or measurement variable. [S.ID]
12. To understand and evaluate random processes underlying statistical experiments; and make inferences and justify conclusions from sample surveys, experiments and observational studies. [S.IC]
13. To use probability to evaluate outcomes of decisions. [S.MD]

### Textbook(s)

*Big Ideas Math Algebra II: A Bridge to Success*, by Ron Larson and Laurie Boswell, Houghton Mifflin Harcourt, 2015, will be the primary text for this course.

## Materials

The following materials will be required. Students will need a 3-ring binder (if shared with other classes, you should have a tabbed divider or section for this course), notebook paper, and pencils (NOT PEN). A scientific calculator will be provided in class. You might want to purchase your own calculator for homework – it is recommended, but not required. This calculator can be purchased for about \$12.00 or less at most stores. Graphing calculators will also be used in the course, but they will be provided for use in class. We will also be using handouts from other sources, so a good notebook and organizational skills are also a must!!

## Grading Policy - Grading Scale

**Letter grades will be determined on the following scale:**

A	90% - 100%	B	80% - 89%		
C	70% - 79%	D	60% - 69%	F	below 60%

## Grading Procedures

1. Students with unexcused tardies will miss opening of class graded activities.
2. Homework/Classwork will count for 25% of the quarter grade, tests and quizzes will comprise 65% of the grade and notebooks will be 10% of the quarter grade. (See below)
3. Notebooks are an important way to organize the information you receive in this course. They will be checked twice each quarter with a quiz. Notes, handouts, assignments and assessments will be kept in order in your notebook. All Quizzes (not tests) are OPEN NOTEBOOK, so notebooks are important!
4. Homework – Practice is very important in math class. There will be daily assignments. There will be 20 to 30 assignments each quarter. Most assignments will be recorded for a grade. Homework will be collected several times a week, but it is expected that ALL assignments will be completed. Warm-ups and exit tickets will be part of the classwork/participation grade.
5. Only work that is neat and legible and done in pencil will be accepted. Work without a name or on anything other than notebook paper or the given worksheet will not be accepted. Spelling and grammar will also be an important consideration in all written work. All work must be shown on assignments, quizzes and tests. Students will not receive credit for answers only.
6. Late assignments are accepted up to two weeks past the due date for full credit, so get your work in!!
7. Students earn participation points each day they are in class, ready to work and with all materials needed. Tardiness, lack of required materials, lack of effort, and minor infractions reduce the participation points for each incident. Make sure you are in class every day and ready to work!!
8. If you do all of the assignments, STUDY, take good notes and pay attention in class, you should be able to succeed in this course. Extra credit is not usually given and if it is, it will be “academic in nature”. Tests and quizzes may be curved to balance the grades. Students will be able to use their practice tests on unit tests.
9. Grades will be posted each week on the wall as well as posted on Infinite Campus.

## Basis for Quarter and Semester Grades

**Quarter grades will be calculated as follows:**

**Summative Assessments (65% of the grade):**

➤ Tests	40%
➤ Quizzes	25%

**Formative Assessments (35% of the grade):**

➤ Homework Assignments	15%
➤ Participation/Classwork	10%
➤ Notebook Quizzes	10%

**Semester grades will be calculated as follows:**

1 <sup>st</sup> Quarter	45%	2 <sup>nd</sup> Quarter	45%	Semester Exam	10%
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## Make-Up Work

When you are absent, it is your responsibility to see me about coming in before or after school to make up assignments and/or assessments. It is also your responsibility to obtain appropriate make up work directly following your return. After a period of two weeks following an absence, all missing assignments will be graded as a zero and will not be changed.

## Attendance and Tardies:

**Attendance and punctuality are integral parts of the education process.** Please keep absences and tardies to a minimum. Tardies result in a Required Parent Conference at DHS. As a reminder, any student with 11 or more unexcused absences will not receive credit for this class.

## Basis for Citizenship Grade

**Students must not exhibit behavior that interferes with the teaching/learning process.**

O – Outstanding: student attends class with 0 – 1 tardies, submits work on time, is always respectful, cooperative, and non-disruptive of the teaching/learning process and follows all class/school rules. This student is a positive classroom participant.

S – Satisfactory: student attends class with three (or less) tardies, submits work on time, is always respectful, cooperative, and non-disruptive of the teaching/learning process and follows all class/school rules.

N – Needs Improvement: student has 3-5 tardies, some of the work is missing or late, needs occasional reminders to be respectful, cooperative, and/or non-disruptive of the teaching/learning process, and needs occasional reminders of class/school rules.

U – Unsatisfactory: student has excessive unexcused absences and tardies, the work is often missing or submitted late, student needs frequent reminders to be respectful, cooperative, and/or non-disruptive of the teaching/learning process, and needs frequent reminders of class/school rules.

## Class Rules/Behavior Expectations:

1. **Food/Drink/Gum/Candy is NOT permissible. Water is acceptable.**
2. **DHS Hall Passes must be properly issued to leave the classroom. Please try to use the restroom during passing periods – passes the first 10 minutes of class will be rare.**
3. **School Rules – All school rules listed in the DHS Handbook will be strictly enforced within the classroom, including but not limited to: tardies, dress code, PDA, profanity, proper use of the internet, and proper use of computers or other DHS equipment.**
4. **Academic Integrity- All students involved in copying, plagiarizing, or cheating of any kind will receive a zero on the assignment or assessment and parents will be notified. In addition, students may face additional consequences based on the severity of the incident.**
5. **You are not to bring nuisance items to class, such as cellphones, MP3 devices, as well as other electronic devices described in school policy. They distract the entire class. If they are brought into the classroom, they will be confiscated and forwarded to the dean's office.**
6. **No student will be allowed to infringe upon the rights of others in the classroom to listen and to learn. Please be respectful of your fellow students. Refrain from using profanity. Listen carefully to me and to your classmates and please do not interrupt.**
7. **Use the time given in class efficiently and wisely and come prepared, bringing all necessary materials.**
8. **Please help keep the room neat. Do not write on the desks or leave trash in the area around your desk.**

## Office Hours

**I will be available before and after school for make-up work and assistance. Generally, my hours will be from 6:30 a.m. until 2:30 p.m. in room 920. Staff meetings are Wednesdays after school, so there will be no office hours Wednesday afternoon. If my schedule changes for the week, notification will be given as soon as possible. Please feel free to come in and see me whenever you have a question or need help. Please do not wait until you are in over your head – come see me whenever you have a question – not just the day before a test.**

\*\*\*Your success in this course is very important and will determine your success in future math courses. I have suggestions to help you succeed in this course as well as more information about Algebra II, the specifics of this course and myself on my website at: <http://TiaPrice.educatorpages.com>. **PLEASE visit my website! All notes and assignments will be posted there and will help you greatly in this class. When absent, you can download the notes/assignment on the website, so you don't fall behind.**

# DURANGO HIGH SCHOOL COURSE EXPECTATIONS

**COURSE:** Algebra 2

**INSTRUCTOR:** Mrs. Tia Price

Student's Name \_\_\_\_\_

Period: \_\_\_\_\_

Date: \_\_\_\_\_

I have read and understand the course expectations that I must follow.

\_\_\_\_\_  
Student Signature

Dear Parent/Guardian:

Hello, my name is Mrs. Tia Price and I will be your son or daughter's Algebra II teacher this year. Could you please take a moment to read these expectations, sign, and complete this information sheet? At some time during the semester, I may find it necessary to contact you concerning the classwork or behavior of your son or daughter. The information requested is not intended to invade your privacy, but it will help me in seeking your assistance. I am at school from 6:30 a.m. to 2:30 p.m. I need specific information on where I can reach you by phone and/or email during this time and possibly in the evening. If there is anything you do not wish to fill out, I will understand. However, please fill in as much as you can because the strongest ally I have in the classroom is you – students do better in class when teachers and parents are in communication.

Thank you in advance for your support. Please call if you have any concerns. The school number is 799-5850 and my extension is 3920. The best way to contact me is through email me at [pricet@nv.ccsd.net](mailto:pricet@nv.ccsd.net). I am looking forward to a wonderful year with your son or daughter.

Mrs. Tia Price

PLEASE PRINT

Parent/Guardian's Name(s): \_\_\_\_\_

\_\_\_\_\_

Email Address: \_\_\_\_\_

Home/Cell Phone: \_\_\_\_\_

May I contact you at work or on your cell phone during the day? If yes, please provide the numbers below.

Work phone \_\_\_\_\_ Cell Phone \_\_\_\_\_

When is the best time to contact you at home? \_\_\_\_\_

I have read and understand the course expectations my son/daughter must follow.

\_\_\_\_\_  
Parent's/Guardian's Signature