

## Pre-Calculus with Trig

### Instructor Information:

Teacher	Room number	Email	Availability
Havel	E272	<a href="mailto:SHavel@WashoeSchools.net">SHavel@WashoeSchools.net</a>	By appointment during school hours
Afuha'amango	E273	<a href="mailto:SAfuhaamango@WashoeSchools.net">SAfuhaamango@WashoeSchools.net</a>	By appointment during school hours

### Course Description:

This is a one-year course, which strengthens and expands the techniques and concepts learned in second-year algebra. This course will strengthen the student's problem solving and algebraic skills in preparation for advanced mathematics courses. The major topics of study are: equations and inequalities; relations and functions; systems of equations and inequalities; matrices; polynomials and polynomial functions; irrational and complex numbers; quadratic equations; rational functions, exponential and logarithmic functions; sequences and series; and elements of probability and statistics. Throughout the year, students will be expected to continue to develop the ability to reason and communicate mathematically, apply learned concepts to new problem-solving situations, and exhibit increased confidence in their ability to solve mathematical problems.

\* Credit in these courses applies toward an honors diploma.

### Course Pre/Co-requisites:

The Math Department recommends that students take this course if they received all As and Bs in Algebra 2 Honors. Students taking non-honors Algebra 2 are not encouraged to take this course. Students may take AP Stats and Trig/Pre-Calculus concurrently.

### Required texts, course materials:

- Binder
- Lined paper and graph paper
- Pencils and pens
- Lab fee \$3 pay to bookkeeper and show teacher receipt.
- Textbook
  - Blitzer Precalculus 6<sup>th</sup> Edition
- Microsoft Teams app is required for this course.
- Graphing calculators
  - You will need a graphing calculator for this class, and I recommend the TI-Inspire or TI-84 (plus or silver are fine.) These cost approximately \$110. You can also rent a graphing calculator from the math department for an annual cost of \$30. Another option is to check online (Craig's List, Amazon, etc... for a used TI-84 or Inspire). There are also free apps and graphing calculators online, however, you will not be able to use smartphones on tests or quizzes. One example of an online calculator can be found at

<http://abbit.codeplex.com>. A class set will be available for use during in class projects and tests.

### Unique class procedures /structures:

**Test Retakes:** Students may retake **ONE** test per semester for a replacement grade in order to improve their grade and show they have mastered the material.

In order to retake tests,

- The practice test must be completely done with work shown.
- All homework for the unit must be turned in.
- Every problem must be attempted on the original test.
- Test corrections must be completed and turned in to Teams (Assignment will be available on Teams).
- Test retake days and deadlines will be set by teacher.

**Replacement Exam:** There will be a cumulative exam given at the end of each semester before the final that will count as its own test grade; it can also be used to replace the lowest test grade from the semester.

### Student Learning Outcomes:

*Standards to be learned:*

- SLO1. Students will be able to appraise and assess how chemistry applies to everyday phenomena.
- SLO2. Students will be able to identify salts, acids, and bases from their molecular formulas, and describe the relationship between the structure of a molecule and its chemical and physical properties.
- SLO3. Students will be able to identify the subatomic particles of an atom, their charges and relative masses.
- SLO4. Students will be able to balance chemical equations and compute stoichiometric relationships including limiting reagents, molarity, titrations, dilutions and thermochemical equations.
- SLO5. Students will be able to predict periodic trends in atomic and ionic size, ionization potential and electronegativity.
- SLO6. Students will be able to draw Lewis structures for p-block molecules and their three-dimensional representation.

\*Note: Remember to pay your lab fees 😊 You can now pay online! Pay \$3 to the bookkeeper and show your math teacher your receipt.

## Course Requirements:

Type	%	Policy
Assignments  Note: All assignments must be done in pencil.	10%	<b>Homework</b> (Practice Problems) assignments will be scored by accuracy, with each problem worth one point if done correctly. <b>Students who do all assignments for each semester will earn an extra 2% for their final grade.</b> Late assignments may be turned in by the day of the test for that unit.
Quizzes	10%	<b>Quizzes</b> will be given when possible and will count for 10% of this grade.
Assessments	60%	<b>Tests</b> will always be announced in advance and will be worth approximately 100 points each. There will be a test approximately every 2 or 3 weeks.  <b>Projects</b> may be occasionally assigned. Detailed directions will be given with each project.
Participation	5%	Students will be expected to participate in class discussions and activities, (this will enhance their learning experience). This includes presenting Homework problems up on the board on a regular basis.
Final Exam	15%	A <b>final exam</b> will be given at the end of the semester.

## Grading Criteria, Scale, and Standards:

DRHS/WCSD grading scale:

- A: 90% - 100%
- B: 80% - 89.9%
- C: 70% - 79.9%
- D: 60% - 69.9%
- F: <59.9%

Make-Up Work

- Make-up work is defined as scheduled tests, scheduled quizzes, homework assigned on the day the student was absent, and/or a description of the topic(s) covered in class while the student was absent and possible resources where the student can obtain information on the topic(s).

- It is the **responsibility of the student** to request make-up work after returning from an absence and return the completed work within the designated deadline.
- Students are provided the length of the absence plus one day to complete any make-up homework assigned. Students will be required to test the next class period that they are present if the student is absent on the day of the test.
- Students who do not request or return completed make-up work will not earn credit on missed assignments.
- Make-up work need not be identical or equivalent to that missed due to the absence but will ensure that the student will have the opportunity to meet the academic standards.
- Previously assigned work that was due on the day the student was absent is NOT considered makeup work and is due the day the student returns to school.
- The teacher must provide make-up work to the student within 2 days of the student's request.

### Late Work

Late work will be accepted up until the day of the chapter test for 50% of the potential points.

## Course Calendar or Topics Outline:

**Note: Dates are approximated and subject to change**

### Semester 1

Dates TBD

- ch 1 - Functions and Graphs
- ch 2 – Quadratic, Polynomial and Rational Functions
- ch 3 - Exponential and Logarithmic Functions
- ch 4 - Trigonometric Functions
- ch 6- Trigonometric Functions
- Semester Review and Final Exam

### Semester 2

Dates TBD

- ch 5 - Analytical Trigonometry
- ch 7 - Systems of Equations and Inequalities
- ch 9 - Conic Sections and Analytic Geometry
- ch 10 - Sequences, Induction, and Probability
- ch 11 - Introduction to Calculus
- Semester Review and Final Exam

## Absence Due to COVID-19:

- THE ONLY STUDENTS TEMPORARY DISTANCE LEARNING WILL BE STUDENTS EXCLUDED FROM IN PERSON INSTRUCTION DUE TO COVID.
- TEACHER WILL POST DAILY ASSIGNMENTS AND INSTRUCTIONAL MATERIALS ON TEAMS.
- STUDENT WILL ACCESS ASSIGNMENTS AND INSTRUCTIONAL MATERIALS THROUGH TEAMS.
- STUDENT PARTICIPATES IN TDL BY MESSAGING HIS OR HER TEACHER THROUGH TEAMS DURING THE CLASS PERIOD.
- IF A STUDENT DOES NOT MESSAGE HIS OR HER TEACHER DURING THE CLASS PERIOD, HE OR SHE WILL BE CONSIDERED ABSENT AND THE TEACHER WILL MARK HDE IN THE COMMENTS SECTION OF THE ATTENDANCE LIST TO MARK THE STUDENT ABSENT.

## Damonte Ranch High School/WCSD Policies

### Academic Integrity:

Cheating means gaining unfair advantage by using unauthorized information.

Cheating is further defined by but not limited to:

- COPYING someone else's homework, classwork, or test answers
- ALLOWING someone else to copy your work or test answers
- USING any kind of unauthorized device, study aid, or cheat sheet
- POSSESSING or VIEWING a copy of an exam beforehand
- SHARING test information with students who have not yet taken the test or course
  - o This includes taking answers/questions from a test out of the classroom without the permission of the teacher.
- CHANGING your answers or someone else's when correcting in class
- MISREPRESENTING work done by others as your own work.

Plagiarism is presenting the words or ideas of another person as one's own without citing sources.

- YOU ARE PLAGIARIZING when you copy a phrase, a paragraph, a page or an entire paper.
- YOU ARE PLAGIARIZING when you copy from a published source, i.e. Internet or print.
- YOU ARE PLAGIARIZING when you copy from someone else's work.

Minimum consequences for cheating are as follows:

- REFERRAL to Student Services
- PARENT CONTACT by the teacher
- LUNCH DETENTION with Student Services
- NOTATION made in school discipline record

Additional consequences may include, but are not limited to, the following:

- Student will receive a ZERO on the test or homework assignment
- Student will receive an "F" in citizenship for the quarter and depending on the severity of the infraction may receive an "F" in citizenship for the semester
- Alternative assignment will not be provided and the grade will remain a 0%.

Be Responsible. Make Wise Choices. If you are unsure, ask your teacher for guidance.

"I have read the Damonte Ranch High School Academic Integrity Policy."

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

\_\_\_\_\_  
Date