

Honors Algebra II / Trigonometry

Teacher: Mrs. Lyle

Room: E1

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Course Description

Honors Algebra II/Trigonometry is designed for students with exceptional ability and interest in mathematics. This course is designed to formalize and extend the concepts studied in Honors Algebra I and Honors Geometry. Both acceleration and enrichment are integral components of the curriculum as students are introduced to more advanced topics such as relations, functions (absolute value, rational, exponential, logarithmic), systems of equations (linear and quadratic), inequalities, trigonometry, and concepts of Pre-Calculus. Participating in this course will require self-discipline, the ability to understand more comprehensive lessons, a dedication to more work, and a desire to learn. Critical thinking and applications of algebraic skills and concepts are emphasized, in preparation for AP Calculus and AP Statistics. Graphing calculators will be used extensively in the study and interpretation of these algebraic concepts.

Text

Precalculus with Limits, Advanced 11st ed., Larson, Houghton Mifflin

Units of Study

1st Semester

Appendix 1-6 (Algebra 1 Review w/ Extension)

Chapter 1 Functions and Their Graphs

Chapter 2 Polynomial and Rational Functions

2nd Semester

Chapter 3 Exponential and Logarithmic Functions

Chapter 4 Trigonometry

Chapter 5 Analytical Trigonometry

Chapter 7 Systems

Grading

80% of Semester Grade

Daily Assignments and Notes (including assignments from ALL online platforms): 20%

Quizzes 10%

Unit Tests: 70%

20% of Semester Grade

Final Exam

AI and Photomath Policy

La Cueva Bears are committed to maintaining academic honesty and integrity at all times.

Work must be your own - all forms of cheating or plagiarism are strictly prohibited.

Cheating is any dishonest or unfair act intended to gain an unfair academic advantage.

Plagiarism is the act of presenting someone else's work. Including that of a human or artificial intelligence, as your own.

All sources, including books, websites, and AI tools, must be properly and accurately cited.

Failing to give credit is considered plagiarism and will result in a disciplinary referral with parent contact - you will also receive a zero for the assignment

Use of AI tools is permitted only with the explicit permission of the teacher.

The LCHS policy on academic integrity and honesty is found on page 4 of the student handbook.

Daily Assignments/Quizzes/Unit Tests

Daily Assignments will be a combination of assignment types posted in Google Classroom.

Assignment work time is built into every class and will REINFORCE material taught in class - class time is for work on this course only (not assignment from other classes).

All work must be shown on paper written in pencil only.

Daily Assignments will be collected at the Unit Test.

Students are expected to complete any missed/unfinished work on a daily basis.

We will be working independently and collaboratively.

Quizzes will be given at intermediate points during a unit or at the conclusion of a short unit – they may be scheduled or unannounced.

Students will have regular Unit Tests to assess understanding

Late/Makeup Work Policy

Students are expected to make-up any assignments that are missed due to absences.

It is the responsibility of the student to collect and make-up all missed work including class notes missed.

These assignments are posted daily in Google Classroom.

All work for any Unit of study is due at the Unit Test and will not be graded any later than test day.

Students are expected to make-up any missed quizzes or unit tests on their own time by appointment (class time will not be given).

It is the students responsibility to arrange a make-up time either before or after school.

Classroom Expectations

No Cell Phones - cell phones are to be put in assigned cell phone pocket at the beginning of class

No Earbuds

No Food - this includes all snacks or meals - no food means no food

Drinks will be allowed as long as there is a sealed lid

Student Supplies

School-issued Chromebook should be brought to class EVERYDAY

Spiral Notebook or Composition Book for Daily Notes

1 Pocket Folder

Pencils – NO WORK WILL BE ACCEPTED IN PEN

Loose-leaf notebook paper for Daily Assignments

Dry Erase Board Markers

Calculator – Students will have access to a TI-Nspire when needed in class. Having one at home may make completion of many assignments much more efficient. A TI-Nspire calculator, a TI-83, or TI-84 are preferred. Students can also use Desmos.

Classroom Supplies (please donate the following items if you are able to)

Box of Kleenex (Please and thank you!)

Dry Erase Board Markers (we use Dry Erase Boards DAILY - if you are able to order a large quantity box from Amazon (or comparable) that would be greatly appreciated)

Resources/Help/Concerns

Google Classroom is the most valuable resource for this course. Always check here first!

Students may contact me via email/google chat for help - ANY TIME!!!

If you have questions or concerns about your students' progress, I invite you to contact me so that we may make an appointment to speak.