



Chandler Unified School District

MAT305A Honors Algebra 2

SY 2023-24



Course Overview

Course Description

Explores how to model and solve real-life situations dealing with such topics as probability, statistics, algebraic functions, geometry, and an introduction to trigonometry. This course provides a more rigorous approach to the topics covered in Algebra 2 as preparation for AP or IB programs. Students will use the standards for mathematical practice to engage with the subject matter.

AP/IB/Dual Enrollment

No

Prerequisite/Fee(s)

Geometry

Course Materials

Graphing Calculator, 3-ring math binder (may share with other subjects), 3 dividers, paper, pencils, and pens. It is strongly suggested that each student purchase a graphing calculator for home/class use in ALGEBRA 2. RECOMMENDED: TI-83, TI-83plus, TI-84, TI-84 Plus CE, or TI-84 plus...NOT RECOMMENDED: Anything with CAS...Casios, TI-89s and TI-Nspires CAS.

Adopted Resource(s)

Big Ideas, Larson & Boswell (Cengage) & AGA, Kanold, Burger, Dixon, Larson, & Leinwand (HMH)

**An asterisk will indicate a resource containing sexually explicit materials per legislative definitions. CUSD has determined that all resources listed above are of exceptional educational value.*

Site and Faculty Information

School name and address:

Hamilton High School, 3700 S Arizona Ave, Chandler, AZ 85248

Building principal:

Michael Delatorre

delatorre.michael@cUSD80.com

Teacher:

Julie Howard M.Ed.

howard.julieh@cUSD80.com

Office hours: Tuesdays and Wednesdays, 2:30-3:30

Course Access

This course is taught in-person at Hamilton High School. Students will have access to the curriculum and instruction in the classroom. Google Classroom is the primary location for students to access material when absent from classes taught in person.

Help

Academic Support

- Contact the teacher to schedule an appointment during office hours
- [Ed Tech](https://www.cUSD80.com/Page/45109) support for students, parents/guardians, and community link ([cUSD80.com/Page/45109](https://www.cUSD80.com/Page/45109))

Mental Health Support

- CUSD mental health support [cUSD80.com/Domain/10528](https://www.cUSD80.com/Domain/10528) or 480-573-8808 (talk or text)

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- Suicide & Crisis Lifeline: 9-8-8 hotline
 - 24-hour Crisis Line Talk: 602-222-9444, Text: 741-741

Student Conduct, Success, and Responsibilities

Student Handbook

Students must follow the policies and procedures established in the Student Handbook. Copies of the handbook can be found at cusd80.com/handbooks. Printed copies will be provided upon request.

Student Responsibilities

Class Expectations:

In my class, I expect excellent behavior and participation, including a “community”-type atmosphere where mathematics is discussed and mistakes are made as part of the normal learning process. An atmosphere of mutual respect where you respect my right to teach and I respect your right to learn is required. All school rules and policies are to be followed, but I expect that you demonstrate common sense. There are many occasions where stopping to think before you respond will create a better learning environment for everyone. Since students learn best by being an active participant, it is required that all students participate in all class activities. Profanity is not allowed.

Students will actively apply the 8 Standards for Mathematical Practice:

- Make sense of problems and persevere in solving them
- Reason abstractly and quantitatively
- Construct viable arguments and critique the reasoning of others
- Model with mathematics
- Use appropriate tools strategically
- Attend to precision
- Look for and make use of the structure
- Look for and express regularity in repeated reasoning

Google Classroom: Students will be able to access content for our class in Google Classroom through their school account. (___@gse.cusd80.com).

Text: Houghton Mifflin Harcourt Geometry- (Google Chrome works the best with this program.)

Sign in through Clever clever.com/in/chandler

Username: s+studentID+@gse.cusd80.com

Password: Google Classroom Password (ex:s00000@gse.cusd80.com)

We have a class set of textbooks. All students will have access to an online interactive and PDF version of the textbook. Most homework will be entered online but students still need to show their work on a separate sheet of paper. BE AWARE, the program has occasional glitches but, if the homework is completed on a separate sheet of paper, students may still receive full credit. Please be patient and report any issues to my.hrw.com 1-800-323-9239.

Attendance: Attendance is required during every scheduled class period. The only way a student will be allowed to make up work is if his/her absence was excused through the attendance office. After 9 absences, per semester, a student may be dropped from the class.

Tardies: Any student, who is not in their seat prepared to begin working when the late bell rings, will be considered tardy, unless they have a signed pass. A referral will be written after the 5th tardy.

Class Rules and Consequences:

1. Be prepared everyday with pencil and eraser, pen, loose-leaf/notebook paper, binder, and completed homework. It also means that you have taken care of personal business before coming to class.
2. Be respectful to yourself, your classmates and me. It also includes having respect for any property or belongings that are not owned by you personally. No put-downs or cursing.
3. Follow directions the FIRST time they are given.
4. During instruction, raise your hand to speak. Enter the room and work quietly.
5. Follow ALL school rules.

The following actions will be taken for violations of any class policies:

1st Offense Warning

2nd Offense Student Conference

3rd Offense Call to your Parent/Guardian

4th Offense Referral to administration

*Depending on the severity, a referral may occur at any time.

Cheating: Cheating is not acceptable in my class and consequences will be enforced. Both parties who participate in cheating (including tests, quizzes, homework and/or computer work) will receive a zero on the test or assignment. Any incidents will follow the student conduct guidelines. There are no exceptions.

Communication: Students will receive instructor messages and announcements through Google

Classroom. Please feel free to email.

Cell Phone Policy:

Cell phones will only be used when directed by the instructor. Any student caught using a cell phone for other than instructional purposes will have the cell phone confiscated and submitted to Security.

Food and Drink (other than water) is ONLY allowed with permission.

Diversity Statement: All individuals have a right to an educational environment free from bias, prejudice and bigotry. As members of the Hamilton High School educational community, students are expected to refrain from participating in acts of harassment that are designed to demean another student's race, gender, ethnicity, religious preference, disability or sexual orientation.

Appropriate use of technology – board policy IJNDC-R: The Governing Board intends that technological resources provided by the District be used in a safe responsible and proper manner in support of the instructional program and for the advancement of student learning. It is the policy of the Chandler Unified School District to maintain an environment that promotes ethical and responsible conduct in all electronic resource activities by staff and students. The District reserves the right to monitor use of the District's systems for improper use without warning or prior consent. Students shall be informed that computer files and electronic communications, including email, are not private and may be accessed by the District at any time. Inappropriate use may result in disciplinary action and/or legal action in accordance with the law and Board policy. Please visit the student handbook at <https://www.cusd80.com/handbooks> for further details about appropriate use of technology use.

Homework:

Even though most homework will be done on-line, ALL Homework will:

Be completed ON PAPER in pencil and corrected in pen.

Include the appropriate work to make the method of solution clear or no credit.

A list of answers is not acceptable.

My.hrw.com assignment due the beginning of the next class period. The due date in

My.hrw.com WILL BE DIFFERENT. When in doubt use the calendar due dates.

All problems must be attempted.

Be kept in an organized 3-ringed binder.

Be checked during class.

Late work

Unexcused late work will be given 1/2 the earned credit up until the day before the Unit Group Test. All unit assignments must be completed to participate with their group for any Unit Group Tests.

Makeup Work:

1. The student has an equal number of days to make up any missing assignments, tests, quizzes, or projects equal to the number of days their absences were excused (students will not be reminded that they are missing work).
2. It is the student's responsibility to turn in the missing assignments by the prescribed time, or he/she will receive half the earned credit (this also applies for tests & quizzes).
3. When absent, check Google Classroom before returning to class. Most notes, assignments and homework are in Google Classroom and are posted for you to print before returning to class.
4. Tests, quizzes, & some class assignments can be made up after school.

ASD:

Students will be assigned After School Detention for unexcused tardies and incomplete assignments. If the student does not come to ASD on their assigned day, a referral may be sent to administration.

Assessments and Assignments

Students will complete assessments during each unit of study to assess their understanding. Students will complete the CUSD Common Final at the end of the first and second semesters. The Common Final will count for 20% of the student's final semester grade in grades 9-12 and 10% in grades 7-8 (some exceptions may apply at the Junior High level). Common finals will be in ELA, Math, Science, Social Science, and World Language.

Final exams will be given during the CUSD Jr High/High School Early Dismissal days in December and May, as identified on the [District Calendar](#).

If students are requested to participate in a survey, the survey questions will be provided to parents/guardians seven days before student contact.

Grading

Grade Percentage

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

Quarter grades

Grades: Please check the Infinite Campus Parent Portal OFTEN to be informed about the student's grades.

In an HONORS course, it is imperative that students stay on top of their homework and assignments. This class is rigorous and fast paced and students are expected to seek help if they need it. If at the first progress report, a student is carrying a grade of 69% or lower, a parent/teacher/student conference will be requested to formulate a plan for the student's success. At this time, the student may be transferred to an on-level class.

Quarter grades will be broken down as follows:

50%- Unit tests

35%- Quizzes

15%- Homework, classwork, participation, etc.

Semester grades

Semester grades are calculated using 40/40/20: Each quarter accounts for 40% of the semester grade and the final exam accounts for the remaining 20%.

Units of study

Units for MAT305A Honors Algebra 2

Unit 1 Functions Module 1: Domain, Range and End Behavior Module 2: Absolute Value Functions, Equations, and Inequalities

Unit 2 Quadratic Functions, Equations, and Relations Module 3: Quadratic Equations Module 4: Quadratic Relations and Systems of Equations

Unit 3 Polynomial Functions, Expressions, and Equations Module 5: Polynomial Functions Module 6: Polynomials Module 7: Polynomial Equations

Unit 4 Rational Functions, Expressions, and Equations Module 8: Rational Functions Module 9: Rational Expressions and Equations

Unit 5 Radical Functions, Expressions and Equations Module 10: Radical Functions Module 11: Radical Expressions and Equations

Unit 6 Exponential and Logarithmic Functions and Equations Module 12: Sequences and Series Module 13: Exponential Functions Module 15: Logarithmic Functions Module 14: Modeling with Exponential and Other Functions Module 16: Logarithmic Properties and Exponential Equations

Unit 7 Trigonometric Functions Module 17: Unit-Circle Definition of Trigonometric Functions Module 18: Graphing Trigonometric Functions

Unit 8 Probability-Brief Review Module 19: Introduction to Probability Module 20: Conditional Probability and Independence of Events

Unit 9 Statistics Module 22: Gathering and Displaying Data

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Teacher: Julie Howard, howard.julieh@cusd80.com

Parent/Guardian

Acknowledgment

Parents/Guardians should indicate if they "Acknowledge" or have a "Potential Conflict" with their student's participation in the following units by checking the appropriate box for each unit of study listed. Students cannot opt out of a standards-based unit. Marking "Potential Conflict" will prompt the teacher to make contact regarding assignment alternatives.

Unit of study	Acknowledge	Potential Conflict
Unit 1 Functions Module 1: Domain, Range and End Behavior Module 2: Absolute Value Functions, Equations, and Inequalities	<input type="checkbox"/>	<input type="checkbox"/>
Unit 2 Quadratic Functions, Equations, and Relations Module 3: Quadratic Equations Module 4: Quadratic Relations and Systems of Equations	<input type="checkbox"/>	<input type="checkbox"/>
Unit 3 Polynomial Functions, Expressions, and Equations Module 5: Polynomial Functions Module 6: Polynomials Module 7: Polynomial Equations	<input type="checkbox"/>	<input type="checkbox"/>
Unit 4 Rational Functions, Expressions, and Equations Module 8: Rational Functions Module 9: Rational Expressions and Equations	<input type="checkbox"/>	<input type="checkbox"/>
Unit 5 Radical Functions, Expressions and Equations Module 10: Radical Functions Module 11: Radical Expressions and Equations	<input type="checkbox"/>	<input type="checkbox"/>
Unit 6 Exponential and Logarithmic Functions and Equations Module 12: Sequences and Series Module 13: Exponential Functions Module 15: Logarithmic Functions Module 14: Modeling with Exponential and Other Functions Module 16: Logarithmic Properties and Exponential Equations	<input type="checkbox"/>	<input type="checkbox"/>
Unit 7 Trigonometric Functions Module 17: Unit-Circle Definition of Trigonometric Functions Module 18: Graphing Trigonometric Functions	<input type="checkbox"/>	<input type="checkbox"/>
Unit 8 Probability-Brief Review Module 19: Introduction to Probability Module 20: Conditional Probability and Independence of Events	<input type="checkbox"/>	<input type="checkbox"/>
Unit 9 Statistics Module 22: Gathering and Displaying Data	<input type="checkbox"/>	<input type="checkbox"/>

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By signing and returning this form, the parent/guardian acknowledges they have reviewed the resources and units of the study included in the syllabus.

- As the parent/guardian, I understand that I may contact the teacher if I have questions about the resources, content, or units of study.
- As the parent/guardian, I understand I can check my student's grades in Infinite Campus anytime during the school year.

Student name (printed)

Student signature

Parent/Guardian name (printed)

Parent Signature

Date

Please return this page to your student's teacher.