

# Applied Algebra 2

## INSTRUCTOR INFORMATION

Instructors: Mrs. Fox

E-mail: FoxA@issaquah.wednet.edu

Website: <https://algebra2foxa.weebly.com/>

Mrs. Fox is available before and after school on various days for math help. Please make an appointment ahead of time to ensure I am available. Copies of handouts will be available online via skyward. Math labs are also available Mondays and Thursdays after school 3-4. Please don't ever feel shy or embarrassed to ask for help!

## COURSE DESCRIPTION

In Applied Algebra II students learn upper level algebra through practical application and hands-on experience. This course is designed for students who have taken or are taking Algebra I and Geometry and provide them with a deeper algebraic understanding through modeling of real world scenarios and hands on learning.

**CTE Dual Credit:** This course is CTE Dual Credit approved and articulated with Renton Technical College AMATH 195. Students who demonstrate proficiency of the college course competencies with a "C" (2.0) or better grade, may be eligible to earn college credit through the CTE Dual Credit program. Students must register with Renton Technical College and pay an application fee to be eligible to the college credit transcribed. Students may earn credit for the following college course:

AMATH 195 Advanced Algebra for Business and Industry 5 college credits

## INSTRUCTIONAL MATERIALS

The textbook, Algebra 2: Learning in Context, CORD Publications, is only online.

Online Textbook: <http://cord-books.net/>

Username:

Student code:

## COURSE CONTENT

- Chapter 1: Fundamentals of Algebra
- Chapter 2: Exponents and Complex Numbers
- Chapter 3: Functions
- Chapter 4: Quadratic Equations
- Chapter 5: Exponential and Logarithmic Functions
- Chapter 6: Polynomials
- Chapter 7: Rational Functions
- Chapter 8: Systems of Equations and Inequalities
- Chapter 9: Sequences and Series
- Chapter 10: Trigonometric Functions and Identities
- Chapter 11: Probability and Statistics
- Chapter 12: Conic Sections

## MATERIALS

Bring with you daily:

- ❖ Spiral notebook
- ❖ Graph paper
- ❖ Pencils
- ❖ Colored Pens (optional)
- ❖ Graphing Calculator
- ❖ Folder for worksheets/assessments

A graphing calculator is required will be available to use in class only. If you would like one to use at home, it is suggested you purchase one (you can find these at Walmart, Target, or Amazon). In class all demonstrations will be done on a TI-84

## GRADING

### Letter Grades:

A 93 to 100%	B+ 87 to 89.99%	C+ 77 to 79.99%	D+ 67 to 69.99%	F below 60%
A- 90 to 92.99%	B 83 to 86.99%	C 73 to 76.99%	D 60 to 66.99%	
	B- 80 to 82.99%	C- 70 to 72.99%		

**\*\*\* We do not bump or round grades, so plan accordingly! \*\*\***

### Absences

Students with excused absences will have up to the number of days of excused absence to make up missing assignments. No late work will be accepted for unexcused absences, **including** tests, labs, and projects. If you are absent, it is your responsibility to find out what assignments, class-activities and notes you missed. Best resources for this are your peers and the class website.

### Late Work

I will accept late work up until the day of that unit's exam. For example, any late work assigned during chapter 3 will be accepted until the day we test for chapter 3. You will receive 60% of the grade the assignment would have earned.

I will make exceptions for challenging, unexpected circumstances on a case by case basis. I will also make exceptions for accommodations documented in 504s and IEPs.

**Academic Integrity:** Unless specifically instructed otherwise, it is expected that all the materials submitted for this course are your work. Violations of this policy include but are not limited to cheating, plagiarism, copying answers and passing it off as your own work, storing notes on a calculator, any communication with another person other than the teacher during an individual test or quiz. Students in violation of this policy are subject to failure for that activity. See student handbook for more information.

### Grade breakdown:

#### Assignments: 20% of final grade

On most days, homework will be assigned and, unless otherwise instructed, will be due the following school day. We consider homework a necessary opportunity to practice new concepts and identify sources of error or confusion. Being such, homework will not be graded on correctness, but rather evidence of effort on each assigned problem. Most homework assignments will be graded on a 4 point scale based on amount of effort shown.

In addition to homework assignments, in-class assignments will occasionally be assigned. In this case, point-values and grading of these assignments will be explained when the assignment is given.

Late work will only be accepted prior to the unit assessment. Late assignments are eligible for a maximum of 60% credit.

#### Assessments/projects/labs: 60% of final grade

Assessments: There is typically one quiz and one test for each chapter. Quizzes will be around the middle of each chapter and tests will follow the end of each unit. We will review tests once all students have the opportunity to test. Assessments will be taken on the determined testing day even if a student misses the review session for the given unit test. If a student has an excused absence the day of the test, they will have up to the amount of excused days to take the test. Students with prearranged absences should plan to take assessments beforehand. Multiple test day excused absences may be reported to school administrators and subject to the school's Academic Integrity Policy. Any *unexcused* absence on an assessment day will result in a zero score.

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There is one test for each chapter. If a student takes the test **on the designated test day** and is not happy with the score, they may retake the chapter test if **ALL** chapter homework is completed. **Deadline for a retake is 5 school days** (which is usually 1 week.) Retests are done before school, during nest, or after school by scheduling an appointment. If a student is absent on test day, they will be expected to take the exam on the first day back, and there is no additional opportunity for retake. (In case of more than 2 days absent, you may be given an extra day to study.)

**Projects:** There is about one project per unit that is typically done in groups of 2-4 and is another way for students to show their understanding of the material we learn in each chapter.

**Labs:** Each chapter has one to two labs where students are doing an activity to either learn new material or review material they have had a lesson on. This gives students the opportunity to have hands-on experience with the math material and be assessed in a different way than the standard paper and pencil test. If students are absent for the lab, they might have to complete an alternate lab depending on the resources needed for the lab.

**Final assessment: 10% of final grade**

There will be a cumulative final given at the end of each semester.

**Leadership: 10% of final grade.**

Students need to earn 50 points each semester to get 100% in this category. I will periodically check in with students telling them where they are in leadership points, but students are always welcome to email and ask how many points they have as well.

Explaining a homework question up on the board	5pts
Helping another student on a homework problem	2pts
Asking a question when confused about a problem	3pts
Demonstrating a problem on the board during lesson	5pts
Professional Attire Wednesday	2pts
Clear concise email to a teacher	3pts
Write a thank you letter to a staff member *Turn into Mrs. Fox to give to them	3pts
Going on Renton technical college field trip (2 <sup>nd</sup> semester)	10pts
Create and video tape a song about a certain math topic	10pts
Create a math game for one of the unit topics	10pts
Prepare a lesson on one of the unit topics	10pts
Other ideas may be submitted for approval	

**Please read over the syllabus with your parent or guardian. Then sign below and return to Mrs. Fox by 9/13/18.**

**Student Name:** \_\_\_\_\_

**Student Signature:** \_\_\_\_\_

**Guardian Name:** \_\_\_\_\_

**Guardian Signature:** \_\_\_\_\_

**Contact Information: Phone Number:** \_\_\_\_\_

**Email address:** \_\_\_\_\_

**If you have any additional information that you would like me to know, please write it below.**

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