**Streamwood High School**

**2019-20 Syllabus for Algebra 2**

Mrs. Severson Office Hours: during 1, 4, and 5th hour

630-213-5500 ext. (8507) mornings, 8th hour & after school by appointment

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***Course Description***

Algebra 2 is a full year course, filling a graduation requirement. The goal is to integrate the mathematical knowledge from the previous classes to provide a solid basis for future math classes. Topics covered will include in-depth explorations of Functions, Polynomials, Radicals, Exponential, Logarithmic, Trigonometric & Rational Functions, and Statistics & Probability.

***Textbook and Materials***

***Discovery Math Techbook using your Chromebook! Bring your Chromebook everyday.*** Other materials: notebook or 3-ring binder**,** Graphing calculator - TI-Nspire Graphing Calculator or TI - 84 series, pencil, highlighter(s), pocket folder (to hold handouts and worksheets). Use desmos.com for online graphing & function exploration.

***Course Objectives/Learning Outcomes***

➢ Reasoning with Equations

➢ Interpreting Functions

➢ Seeing Structure in Expressions

➢ Arithmetic with Polynomials and Rational Expressions

➢ Creating Equations and Writing Functions

➢ Understand Transformations of Various Functions

➢ Use and Apply Polynomial, Rational, Exponential, Logarithmic Models

➢ Operations with Complex Numbers

➢ Trigonometric Functions and their graphs

➢ Making Inferences and Justifying Conclusions

➢ Using Probability to Make Decisions

➢ Use the 8 Common Core Standards for Mathematical Practice

***Course Organization***

First semester teaching and learning includes functions, polynomials and complex numbers, radicals, and exponential relationships, transformations, and modeling these in the real world. Second semester will focus on higher degree polynomials, logarithms, trigonometry, statistics, rational functions, and connecting these functions to the real world.

***Course Policies***

*Attendance/Tardiness*: Regular attendance and being on time to class are expected for all classes. Absence from school is the greatest single cause of poor achievement in school. Successful students are seldom absent or tardy. The High School Attendance Program will be followed as outlined in your student handbook.

***Electronic Devices***

**The district policy does not allow cellphones or earbuds in the classroom.**

***Specific Course Activities***

In order to demonstrate proficiency in course standards, students will need to:

1. Participate in class activities (take notes, contribute to group work, complete in-class tasks, ask questions, etc.)

2. Complete assigned homework as needed in order to practice and improve learning.

3. Use formative assessments to track learning progress and identify strengths and weaknesses with the course content and complete outside practice in activities when necessary.

4. Complete all assessments (formative and summative).

5. Create and follow through on a plan of improvement, when demonstrating little to no understanding of learning targets.

***Tests, Quizzes, & Homework.***

Tests and quizzes will be given on a regular basis. Homework and quizzes are formative assessments, give students feedback on how they are progressing. Homework will be recorded in Infinite Campus in the following manner.

|  |  |
| --- | --- |
| **Completeness** | |
| **Mark** | **Meaning** |
| **Turned In** | At least 75% complete |
| **Incomplete** | At least 50% complete |
| **Missing** | Less than 50% complete |

Quizzes will be recorded in Infinite Campus using a 0-4 grading scale. Quiz scores are not used in determining a student’s grade. For tests (summative assessments), students will be informed in advance about the dates, and be given adequate time to prepare. These will be recorded in Infinite Campus using a 0-4 grading scale. Test scores are used in determining a student’s grade for that standard. If a student does not take a quiz or a test, it will be marked as Missing in Infinite Campus.

***Makeup Policy***

Summative assessments that are missed will be marked “missing” or “not evaluated” in the grade book until completed. Students have five school attendance days to complete a missed assessment. ***Incomplete assessments result in a lack of evidence of student’s understanding and may cause a student to fail.***

***Reassessments***

Students will have multiple assessment opportunities to demonstrate higher levels of achievement on any assessment that is used to determine an overall proficiency and grade. The opportunities may be initiated by the instructor or the student, but always at the discretion of the teacher. ***Reassessments must be completed within a reasonable amount of time. A reassessment must be completed before the next summative assessment***. After a reassessment, the most current grade will show in Infinite Campus. For example, if a student starts with a 2 and then earns a 1 on a reassessment, the 1 will be the score reflected within Infinite Campus and in grade determination. If the student instead earns a 3, the 3 will be the score reflected.

***Late Work***

Any late work that a student may have must be turned in within the reassessment window. ***Once the reassessment window is closed, the assessment will no longer be accepted.***

***Academic Dishonesty***

Academic Dishonesty refers to cheating, copying, plagiarizing, violating the district electronics policy, or otherwise representing the work of others as one’s own through verbal, written, graphic, electronic, or other means. Students determined to have been academically dishonest are subject to disciplinary action. Consequences will depend on the severity of the offense, the number of offenses, the impact on other students and teachers, and/or the curriculum. Academic dishonesty undermines the learning process and will not be condoned.

***Proficiency Scale***

Standards-based rubrics will be used to determine students’ level of proficiency, using the 0-4 scale based on set criteria. Rubrics will be distributed at the beginning of a unit of study and referred to throughout the learning progression for the purpose of providing feedback. Rubrics for the course can be found on the math website, <https://www.u-46.org/Page/10321>.

|  |  |
| --- | --- |
| Score | What does it mean? |
| 4 = Mastery | Demonstrates the ability to apply extended thinking about the skills and knowledge of the standard |
| 3 = Proficient | Demonstrates skills and knowledge of the standard |
| 2 = Basic | Demonstrates a basic understanding of the skills and knowledge of the standard |
| 1 = Below Basic | Demonstrates a below basic understanding of the standard; may demonstrate gaps in skills and knowledge |
| 0 = No Evidence | There is no, or insufficient, evidence of learning to assess the standard at this time. |
| NE = Not Evaluated | This standard has not been evaluated at this time |

***Grade Determination***

Infinite Campus is used to communicate students’ proficiency in each assessment, overall reporting strand, and the *predicted* semester letter grade. The semester letter grade will be informed by the student’s learning proficiencies throughout the semester. Mastery of standards leads to mastery of the reporting strands, which in turn leads to mastery of the course.

* Standards-based rubrics will be used to determine students’ level of proficiency, using the 0-4 scale, on individual standards and assessments.
* A *predicted in-progress* letter grade for each reporting strand will be calculated within Infinite Campus by averaging each of the proficiency scores in the strand.
* A *predicted semester* letter grade for the course will be calculated within Infinite Campus by averaging each of the reporting strands.
* The equal incremental grading scale to determine a letter grade is below.

A: 3.21 – 4.0

B: 2.41 – 3.20

C: 1.61 – 2.40

D: 0.81 – 1.60

E: 0 – 0.80

**“Mathematics ability is a function of opportunity, experience, and effort—not of innate intelligence. Mathematics teaching and learning cultivate mathematics abilities. All students are capable of participating and achieving in mathematics, and all deserve support to achieve at the highest levels.”**

**- NCTM’s *Principles to Actions,* 2014**

***College-Level Math Projected Readiness***

One of the benchmarks for projected readiness in college-level math, as required by the PWR Act, is earning an overall grade of B or better in Algebra 2. Students who do not earn a grade of B or better may be enrolled in transitional math opportunities in relation to their math achievement and career interests during their senior year of high school.

***Classroom Behavior Expectations***

It is our goal to provide each student with an environment that is conducive to learning.

We are SHS:

● We Strive

Come to class time with Chromebooks, calculator, pencil and assignments.

Ask questions!

Do your homework on time and get help (from me or your peer) when you have questions.

Help your peers (and yourself) by working together

● We Honor

Be respectful of self and others.

All students must wear their IDs.

● We Succeed!

Have a positive attitude about learning and never give up.

We reach our goals.

“Success is making a difference to people while doing what we love.” - Jamin Arvig, CEO

"The price of success is hard work, dedication to the job at hand, and the determination that whether we win or lose, we have applied the best of ourselves to the task at hand."

-Vince Lombardi