**STREAMWOOD HIGH SCHOOL**

**Honors Algebra 3-4 Course Syllabus 2016-2017**

**INSTRUCTOR: Mrs. Carolyn Severson OFFICE: C202**

**PHONE: (630) 213-5500 ext 8507 E-MAIL: carolynseverson@u-46.org**

**FREE PERIODS: 1,2,4 (lunch), 8th (until 2:30) Website: www.mrsseverson.weebly.com**

**COURSE DESCRIPTION**

Honors Algebra 3-4 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 Polynomial and Rational Relationships, Trigonometry, Functions, and Statistical Analysis.

**TEXTBOOK AND MATERIALS**

*Algebra 2*; Bellman, Bragg and Handlin; Pearson, Prentice Hall; 2011

**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)

**Course Objectives/Learning Outcomes**:

* Reasoning with Equations and Inequalities
* 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 Quadratic, Rational, Exponential, Logarithmic Models
* The Complex Number System
* Trigonometric Functions and their graphs
* Making Inferences and Justifying Conclusions
* Using Probability to Make Decisions
* Use the 8 Common Core Standards for Mathematical Practice (attached)

**Course Organization:**

First semester teaching and learning includes polynomial, radical and rational relationships, multiple representations of these relationships and modeling these in the real world. Corresponding chapters are roughly 4, 5, 6,& 8. Second semester will focus on, logarithms, exponential, trigonometry, statistics and connecting these functions to the real world. Corresponding chapters are roughly 7, 11, & 13.

**Grading Policy:** This course will be utilizing Standards Based Learning and Assessment. The purpose for using standards based learning is to ensure the student’s grade is reflective of their learning and allows for students to increase their knowledge and skills throughout the course. The final grade is based on the mastery of each learning standard.

Formative assessments are used throughout the course to track student progress and growth. **Formative feedback will be given consistently in the following areas: exit slips, in class assignments, homework, and quizzes.**

Students are graded on each standard based on a rubric that is specific to each reporting strand.

The summative assessments for each standard are not averaged. At the end of the course, the student’s final grade will be a composite ranking in each of the course standards. The teacher will use the double majority matrix to make a professional decision based on evidence for the final grade of each standard.

**ASSIGNMENTS**

All Homework and In-Class assignments will be assessed formatively. Homework/In-Class Assignments will be assigned on a regular basis, usually **daily**, due the next school day (unless specified otherwise). The point of these assignments is to check that students have understood what they have been taught. Assignments will be used to identify misconceptions and it is expected that students complete their assignments correctly **or** **fix their mistakes if they have completed their work incorrectly.**

**TESTS & QUIZZES**

Tests and quizzes will be given on a regular basis. You will be informed in advance about the dates, and be given adequate time to prepare. If a student does not take a quiz or a test, it will be marked as an Incomplete in the grade book. **If any student has an incomplete test or quiz at the end of the semester, they may not pass Algebra 3-4. Any** student scoring a 2 or lower will have the opportunity to complete a reassessment after completing a Summative Unit Assessment. A student must have all formative work completed, meet with the teacher, complete a reflection page and do any additional practice the teacher recommends. Reassessments must be completed within 2 weeks of the original testing date.

**LATE WORK**

**Assignments**

If you are absent from class and the absence is excused, your assignments will be due within the number of days equal to the number of excused absences. For example: *If you miss three consecutive days and all are excused, then your homework will be due the fourth day after you have returned.*

All late assignments must be turned in by the day of the unit assessment to receive half credit. ***No credit***will be given after the unit assessment.

**Tests/Quizzes**

If you are excused on the day a quiz or a test is given, you will have five consecutive school days to complete the test or quiz for full credit. If you have not completed the test or quiz in those five days you have an additional five days to complete the test or quiz for half credit. If the test or quiz is not made up within 10 consecutive school days, ***no credit*** will be given.

**ELECTRONIC DEVICES**

Electronic devices are defined as cell phones, I-pods or other MP3 player, and gaming platforms (DS/DSI, PSP/PSP go, game boys). Students are responsible for the safe keep of their electronic devices. Students are allowed to use electronic devices in the green zone before and after school and anytime during periods 1-8. The green zone is Cafeterias A, B, & C. The green zone is marked with green tape. The rest of the building is a red zone. Students who use their electronic device in the red zone will have their device taken away and **cannot get it back until a PM is served.** SHS is **not responsible** for lost or stolen electronic devices.

**ACADEMIC INTEGRITY AND DISHONESTY**

Academic Dishonesty refers to cheating, copying, plagiarizing, 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.

**ATTENDANCE**

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.

**PARTICIPATION**

Students will be expected to participate in the following ways:

* Pay attention to class conversation and contribute at least once a day
* Keep accurate notes and use these for review and enhanced understanding
* Have homework completed on time, ready to discuss questions or answers
* Actively seek help when you have questions
* Hold each other accountable for learning class material
* Play a role in group or partner activities

“**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

**CLASSROOM BEHAVIOR EXPECTATIONS**

It is our goal to provide each student with an environment that is conducive to learning. Rules are necessary to maintain this environment. Students in my class are expected to follow the rules stated in the Streamwood High School Handbook and meet the expectations listed below.

**We are SHS:**

* We are safe

All students must wear their IDs.

* We hold ourselves accountable

All students should come to class time.

Students need to bring their book, notebook, calculator, pencil and assignments.

Do your homework **on time** and get help (from me or your peer) when you have questions. Everyone is expected to attempt every problem.

**Ask questions!**

If time is provided to work on assignments students will use that time to work on algebra and not assignments for other classes.

* We show respect:

Be respectful of self and others.

Have a positive attitude about learning

Help your peers (and yourself) by **working together**.

"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**

Please read and review the policies stated in the syllabus. After you have done this, bring it home and have a parent or guardian read it as well. Then sign and date the form below and return it to me. (This counts as your first assignment, and is worth 5 homework points!!!)

**I have read and understand the grading and attendance policies and the course syllabus.**

/ /

Parent/Guardian signature Date

Parent/Guardian email

Parent/Guardian phone

Student name (PLEASE PRINT LEGIBLY)

/ /

Student signature Date

Student email