

**STREAMWOOD HIGH SCHOOL**  
**COURSE SYLLABUS**  
**COURSE TITLE: Pre-Calculus/Honors Pre-Calculus**

**INSTRUCTOR:** Mr. Pascolini  
**PHONE:** 630/213-5500 ext 5574  
**FREE PERIODS:** 2<sup>nd</sup>, 3<sup>rd</sup> and 7<sup>th</sup>  
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**INSTRUCTOR:** Mrs. Huber  
**PHONE:** 630/213-5500 ext 8262  
**FREE PERIODS:** 2<sup>nd</sup>, 4<sup>th</sup> and 8<sup>th</sup>  
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**INSTRUCTOR:** Mrs. Oates  
**PHONE:** 630/213-5500 ext 4917  
**FREE PERIODS:** 1<sup>st</sup>, 4<sup>th</sup> and 8<sup>th</sup>  
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### TEXTBOOK AND MATERIALS

- TI-83, TI-83+, TI-84, TI 84+, TI 84+C Silver or TI-Nspire graphing calculator.
- Spiral notebooks (for note-taking and assignments)
- Three-ring binder (to hold handouts and worksheets)
- Colored pens/pencils for graphing.

### COURSE DESCRIPTION

To integrate the mathematical knowledge you have gained in Algebra, Geometry and Algebra II in order to provide a solid basis for Calculus. Students will also see and make connections between mathematical concepts and other subjects. The following topics will be covered: *functions, exponential and logarithmic functions, series, conic sections, trigonometry, complex coordinate systems and limits.*

### INSTRUCTIONAL FOCUS

The student will be able to:

- Compose and transform functions
- Produce inverse functions
- Graph and interpret rational functions
- Graph and interpret exponential and logarithmic functions
- Use inverse relationships to solve problems
- Use finite and infinite formulas to solve problems
- Derive the equations of ellipses and hyperbolas
- Use unit circles and inverse trigonometric functions
- Graph and transform trigonometric functions
- Prove and use trigonometric identities
- Represent and calculate with vectors
- Represent and calculate complex numbers
- Find limits and continuity

### INSTRUCTIONAL METHODS

- Demonstration, class discussion, lecture and note taking
- Hands-on applications
- Group work and activities
- Board work and worksheets

## GRADING AND ASSESSMENT

The district grading scale will be used:

|   |                            |   |
|---|----------------------------|---|
| 4 | Mastery                    | A |
| 3 | Proficiency                | B |
| 2 | Developing Proficiency     | C |
| 1 | Initial Proficiency        | D |
| 0 | No Evidence of Proficiency | E |

Summative Assessments may include, but are not restricted to Unit/Topic Tests, Projects, Presentations.

Formative Assessments may include, but are not restricted to Practice, Quizzes, Projects, Entrance and Exit Slips.

Formative and summative assessments will be given on a regular basis. If an honest effort is made on practice and the formative assessments, logic dictates that students will succeed on the summative assessments. We will typically review the previous day's work at the beginning of class before beginning the next lesson or activity. On occasion, student work will be collected to be graded.

*The student's semester grade will be primarily based on the summative assessments.*

**STUDENTS MUST COMPLETE ALL SUMMATIVE ASSESSMENTS EACH SEMESTER IN ORDER TO RECEIVE CREDIT FOR THE COURSE.**

Students that do not complete all summative assessments will receive a failing grade.

If a student wishes to retake a summative assessment, that student must complete a retake request form and submit it to their teacher. The student, along with the teacher, will develop a retake action plan. Once the action plan is created, the student will have 10 days to complete the plan and retake the assessment.

## ELECTRONIC DEVICES

Use of cell phones during class is contrary to school rules and is not allowed. This includes calling, texting, using the calculator feature, etc. So please make sure your cell phone is turned OFF and put away before class begins. You will only be asked once to put away your cell phone if it is out during class. Use of a cell phone after this initial warning will result in disciplinary action. Texting or messaging on any other electronic device besides a "cell phone" is likewise not allowed.

## 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. Students should meet with their mathematics teacher to discuss absences greater than 5 days.

## PARTICIPATION

Participation in class assumes that you will have your assignments completed by the requested due date. There may be times when you will be asked to do problems on the board, as well as help other students work out problems. Participation also assumes that you will attempt to answer any questions that you are asked as well as asking questions when you are not sure of what we are doing in class. Class disruptions affect not only you, but your peers as well. Class disruptions may result in a detention or referral (as per SHS policies).

## 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 this 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!***
  - *Use the web!*
  - *If time is provided to work on assignments students will use that time to work on precalculus 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**.*
  - *Electronic Devices are not to be seen or heard once you enter the classroom.*
  - *Do not leave a mess.*

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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 2 homework assignments!!!)

**I have read and understand the grading, attendance, retake and classroom policies that are contained in the course syllabus.**

----- /----- /-----  
Parent/Guardian signature Date

Parent/Guardian email -----

Parent/Guardian phone -----

-----  
Student name (PLEASE PRINT LEGIBLY)

----- /----- /-----  
Student signature Date

Student email -----