Course Description:
Pre Calculus uses the mathematical foundations you have built in previous classes to prepare for Calculus level thinking. Topics include: function analysis with polynomials, rational, logarithmic, exponential and trigonometric functions; explorations in trigonometry; matrices; vectors; analytical geometry; and limits.

Course Timeline:
Unit 1: Functions from a Calculus Perspective (4 weeks)
Unit 2: Polynomials and Rational Functions (7 weeks)
Unit 3: Logarithms and Exponents (4 weeks)
Unit 4: Intro to Trig (3 weeks)
Unit 5: Analytical Trigonometry (6 weeks)
Unit 6: Vectors (3 weeks)
Unit 7: Matrices (5 weeks)
Unit 8: Statistics (4 weeks)

Mandatory Class Materials:
- ½ inch Binder or three-pronged folder (For handed out notes and materials)
- Pencils (please bring extra lead if using mechanical pencils) with erasers
- Lined and graph loose leaf paper

Suggested Class Materials:
- Highlighter(s) and/or colored pencils
- TI-84 Graphing Calculator
- Dry Erase Marker for personal use

Course Components:
- Project-Based Learning - projects will be a frequent component of this course to provide an in-depth exploration into mathematics in the world.
- Homework - we will be using Khan Academy for our homework. You will be responsible for completing at least 10 practice assignments per unit. This will be due by the unit test.

School Policies:
- Food/Drink – Only clear, plain water in a water bottle with top is allowed (not near laptops or calculators, please!). Food/candy (including gum) is not permitted unless there is a medical reason.
- Cell Phones/Electronic Devices – Cell phones should be turned off/silenced and put away before the start of class unless students are asked by teachers to use them for an academic task/purpose.
- Hall Passes/Restroom Passes – Please take care of personal needs between classes. Passes will be issued only in emergencies. You have 5 minutes … use your time wisely!
- **Attendance** – Students should make every attempt to be in class every day. In the case of an absence, it is the student’s responsibility to collect and complete missed work.

**Caution!** If a student misses 10 or more days per semester (Semester 1: August – December, Semester 2: January – May), credit may be lost (non-attendance F)! If there is chronic illness that will result in excessive absences, please contact the health office for the necessary paperwork regarding chronic illnesses.

**Appropriate Behavior/Consequences:** Disruptive behavior will not be tolerated in class as it interferes with others’ right to learn. Students choosing not to adhere to student expectations will receive one warning. Continued poor choices will result in more serious consequences—detentions, parent contact, and/or office referrals.

**Academic Integrity:** Academic integrity encompasses any academic project, paper, performance, quiz, exam or any other work assigned by a teacher for a grade or credit (including optional credit). Cheating, fabrication, and plagiarism are all forms of academic dishonesty that will not be tolerated.

**Consequences for Academic Dishonesty:** The first offense results in a zero on test/work and up to 5 days of ISS; second offense, in that class or any other class over the four years, results in withdrawal from class with an “F.”

**Grading:** Grades are determined based on a weighted system. Grades will be kept updated on JupiterGrades (www.jupitergrades.com) for parents and students to check. There is no excuse for “not knowing” how you are doing in class!

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<tr>
<th>Marking Period Grades:</th>
<th>Semester 1 and 2 Grades:</th>
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<tbody>
<tr>
<td>Tests/Projects</td>
<td>70%</td>
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<td>Quarter 1: 40%</td>
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<td>Quizzes</td>
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<td>Quarter 2: 40%</td>
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<td>Homework</td>
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<td>Semester Final: 20%</td>
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**Extra Help/Tutoring:** There is tutoring available at CHS on Tuesdays and Thursdays (2:30 – 4:45). There is a bus home for tutoring students at 4:45 pm. If you are struggling with math or any other subject, it is encouraged that you attend tutoring. You must be signed up for the tutoring sessions prior to attending.

**Helpful Math Information:**

**JupiterEd:** [https://login.jupitered.com/login/](https://login.jupitered.com/login/)
- Your student’s teacher can reset and provide both student and parent passwords if needed.

**Google Classroom Code:** _________
- You and your student will receive an e-mail invite to join the Geometry Google Classroom in the near future. This will be another forum for information regarding all things CHS Geometry.

**Graphing Calculator Options:**
- **WabbitEmu for Android Only** - A free alternative to the TI-84 that perfectly emulates the same functions as the class calculators.
- **WolframAlpha** - a website
- **Desmos** - A graphing website

**Counselor Phone Numbers:**

**Useful Math Help Links:**
- Khan Academy: [www.khanacademy.org](http://www.khanacademy.org)
- WolframAlpha: [www.wolframalpha.com](http://www.wolframalpha.com)
- Purple Math: [www.purplemath.com](http://www.purplemath.com)
- Google Classroom: Post questions to ask teachers or fellow students for help!

**Teacher Office Hours:**
- Wednesdays 2:30 to 4:30pm in room 434 - walk-ins welcome
- Thursdays at Lunch (A or B lunch) - appointment **must** be made

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