Advanced Algebra and Trigonometry will include an in-depth review of topics covered in Algebra 2 and further explore units in conic sections, trigonometry functions and identities, acute angles and right triangles, graphs of circular functions, and oblique triangles and vectors.

Units of Study:
Unit 1 – Equations, Inequalities, and Linear Systems (3 weeks)
Unit 2 – Parent Functions and Transformations (3 weeks)
Unit 3 – Solving Quadratics and Complex Numbers (5 weeks)
Unit 4 – Exponential and Logarithmic Functions (7 weeks)
Unit 5 – Rational Expressions and Equations (5 weeks)
Unit 6 - Conic Sections (7 weeks)
Unit 7 – Trigonometric Functions (7 weeks)

Class Materials:
- 1 3-ring binder and 1 - 2 notebooks (for math only)
- At least 2 pencils (please bring extra lead if using mechanical pencils) with erasers
- TI- 84 Graphing Calculator (suggested, but not required)
- Generous supply of both lined and graph loose leaf paper
- Highlighter(s) and/or colored pencils
- Glue sticks
- Ear buds/headphones

Other supplies we use regularly are tissues, dry erase markers, hand sanitizer, and copy paper. Your generosity is greatly appreciated.

****All assignments, including tests/quizzes MUST be completed in pencil****

Basic Classroom Expectations:
- Do not interfere with the learning of others.
- Show respect for classmates, teacher, and property.
- Follow instructions the first time given.
- Take responsibility for your actions.
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 miss 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 Responsibility:** Treat each assignment as if it were a task given by a future boss. Any assignment submitted for math should be something that you would be proud of. All assignments should have a legible heading with all necessary information at the top. All work must be shown neatly on the page to receive credit.

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

**Marking Period Grades:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tests/Unit Assessments</td>
<td>70%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>20%</td>
</tr>
<tr>
<td>Homework/Classwork</td>
<td>10%</td>
</tr>
</tbody>
</table>

**Semester 1 and 2 Grades:**

<table>
<thead>
<tr>
<th>Marking Period</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marking Period 1:</td>
<td>40%</td>
</tr>
<tr>
<td>Marking Period 2:</td>
<td>40%</td>
</tr>
<tr>
<td>Semester Final:</td>
<td>20%</td>
</tr>
</tbody>
</table>
Tests: Tests are summative assessments that will occur at the end of a unit. They will be announced ahead of time so that students have adequate time to study and prepare. There are 2 retakes offered for tests (at the student's discretion) per semester.

Quizzes: Quizzes are formative assessments that serve as a ‘checkpoint’ in student learning. Students will be able to retake quizzes. The purpose of quizzes is to help students (and teachers) gauge current levels of understanding, improve their knowledge, and move towards mastery. It is important that students take advantage of quizzes to gauge their understanding and help prepare for tests.

Homework/Classwork: Expect homework every night. Unless told otherwise, homework will be due at the beginning of the next class period. The purpose of homework is to check understanding of concepts and practice (just like practicing sports, musical instruments, or other hobbies). Homework assignments may be collected from students or spot checked.

No late homework will be accepted after the unit test. Sometimes there will be online assignments done as classwork and sometimes there will be online assignments assigned as homework (computer access is available in tutoring, Tuesdays and Thursdays, 2:30 – 4:45pm). If you are absent, it is up to you to get the notes/work.

Extra Help/Tutoring: There is tutoring available at CHS on Tuesday and Thursday (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 immediately. There are teachers from all subject areas in tutoring every day.

Final Notes

As a teacher, my role is to guide student learning and assist in any way possible. I have high expectations for each and every student entering this classroom. Accepting “good enough,” is selling you short. I will give 100% effort every time I walk into this room, and I expect the same of all students. Together, we will grow to meet our goals and expectations.

Part of giving 100% effort as a teacher is being available to students and parents. If there are any questions, concerns, suggestions, comments, or you just want to say hi, my door is open. Email is the best way to reach me (especially during the school day), but you can reach my voicemail by calling the school's main phone as well. I look forward to getting to know each and every one of you this year.