Course Description:
AP Calculus AB is roughly equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. The AP course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions (http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/2178.html)

This is a college-level course for juniors or seniors who have completed a year of Precalculus. There is an in-depth study of elementary functions, limits, differential calculus, and integral calculus. The selection of topics meets the requirements set forth in the AB Syllabus of the College Entrance Examination Board and parallels the course description for one or two semesters of Calculus at major universities. This course is weighted 10 points on a 100-point scale. (Students must take the AP exam to receive the additional quality point. Extra cost for AP exam.) (https://www.huntsvillecityschools.org/sites/default/files/HCS%20High%20School%20Course%20Description%20Guide%202019-2020_1.pdf)

Needed Materials
The following materials are expected to be in class with you every day:
- Notebook—students have the option to use a multi-subject spiral notebook, two spiral notebooks (one for notes and one for homework) or a three-ring binder with dividers. (Students have choices as to how they best stay organized, but students must have a notebook strictly for math.)
- Pencil(s)
- Pen(s)
- School-issued laptop
- Graphing calculator—You will need a graphing calculator…either a TI-89 or TI-84. The TI-Inspire with CAS (computer algebra system) will also be ok (Note: The CAS and TI-89 are not allowed for the ACT). This is the newest allowable calculator by TI, and our program is starting to investigate its possibilities.

Textbook:
Rogawski’s Calculus for AP* Early Transcendentals: Second Edition
Grading:

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Grade Distribution</th>
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<tbody>
<tr>
<td>60% Standards Based Summative Assessments</td>
<td>performance based assessments, labs, projects, writing assessment, all of which directly reflect course standards</td>
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<tr>
<td>40% Formative Assessment and Assignments</td>
<td>In-class assignments/homework that directly reflect and support mastery of course standards</td>
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Each quarter grade will make up 45% of the semester grade and each semester test will be 10% of the semester class grade. Each semester is 50% of the final grade.

Attendance and Tardies:
To optimize learning, students need to be in the classroom. Students are expected to make an effort to be in class. Work missed while absent must be made-up. It is the responsibility of the student to get the work they missed. It is a good idea to get contact information from a few classmates in case students have questions about what they missed. If students miss a test, it is their responsibility to come talk to be about a make-up day and time on the day the student returns. If the student only missed test day, and did not miss any new material, they should come to school the next day prepared to test.

I will be ready to start when the bell rings, so students need to be in their seats and ready to go when the bell rings.

Attendance and tardy issues will be addressed and dealt with according to Huntsville City Schools’ BLG.

Homework:
Homework is expected to be completed daily and in pencil. Students can take notes in pen if they would like, but homework and tests should be in pencil. Students are expected to show all work.

Make-up/late work:
When students need to make up work missed for excused absences, they have 3 days to get with me about how and when to make up the work. Test make ups will take place A-days during Tiger Time.

Students are expected to take initiative when it comes to getting and turning in missing work. Late work is not acceptable unless the student has an excused absence.
Technology:
Technology is a tool to be used in the classroom but should not be used inappropriately. I expect students to follow all school policies regarding technology.

Canvas will be used to communicate with students, post assignments and notes and post class information.

Class rules:
- Show respect to yourself and others
- Arrive on-time
- Come prepared and ready to work
- Do your best
- Cell phones and other electronic devices should be stored out of sight, out of mind
- Technology should be used appropriately when appropriate.

Students are also expected to abide by all school and district rules and policies.

Support Systems for students
Additional Teacher Support room
- Tiger Time (A-Days)
  - 11:35-12:35 in room 1212

Mu Alpha Theta
- Dates and times TBA

Expectations:
I will be prepared each day and I expect the same from every student. Come to class with a determination to learn and engage in class discussion. If you participate well you will be successful. Success is within reach for every student who puts the effort into this class.

To ensure success, students will need to daily keep up with the homework. If students are confused over the homework, they will be given time to ask questions or they can come find me before, during Tiger Time or after school when I am available.

In my class, you will get what you earn: if you come to class prepared, work hard and engage in class discussion you should experience a high level of success and learning.

**My Goal:** My goal for this year is to have an 80% or better pass rate on the AP AB Calculus Exam. 😊