

Charles J. Colgan, Sr. High School  
*"Preparing and Inspiring Students for their Future"*

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Mrs. Casey Grandy  
AP Calculus AB  
2018-19 Course Syllabus  
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Office Hours: Monday and Tuesday 2:30 to 3:30 (other times by appointment)

### **Course Description:**

The Advanced Placement program offers courses to high school students that are taught on a college level. After successfully completing the curricular requirements of an advanced placement course in calculus, students are given an opportunity to take an exam administered by the College Board to assess their knowledge of, but more importantly their understanding, of calculus.

Though the Advanced Placement program is an open enrollment program, students must have taken the correct sequence of courses leading up to enrollment in calculus in order to be successful. A solid, fast-paced, intense and rigorous foundation must be laid in algebra, geometry and trigonometry in order for students to be successful in AP Calculus. Specifically, students must have a firm understanding of functions and their properties, algebraic manipulations, and graphs.

### **Required Class Materials:**

- Agenda
- 3 Ring Binder (I suggest a 2" binder as we will have LOTS of handouts.)
- Loose leaf paper
- Tablet of Graphing Paper that stays in the binder
- Pencils, pen (black ink) and a highlighter
- TI-84 Plus Graphing Calculator

### **Course Unit Topics:**

- Limits and Continuity
- Derivatives
- Differentiation
- Applications of Derivatives
- Integration
- Applications of Integration

**Grading/Missed Work:** Grades are reflective of a student's level of mastery of an objective. Students will be given multiple opportunities to master objectives.

A score will be awarded for each graded assignment. Grades will be calculated based upon the following assessment categories:

**Summative Assessments (80% of total grade):** These summative assignments demonstrate that the student has mastered the learning target(s) that have been addressed during a unit of study. This type of assessment could occur during a unit or at the end of a unit. Examples of such assessments may include but are not limited to: tests and projects.

**Formative Assessments (20% of total grade):** This type of assignment will be used to measure student progress towards a learning target, and will be used to measure student progress towards a learning target. This will occur within instruction towards a learning target. Examples of

formative assessments may include but are not limited to: quizzes, homework quizzes, exit tickets, and classwork.

**Ungraded Assignments:** This type of assignment does not count towards a student's overall grade, but still provides the opportunity to practice, receive feedback, and develop mastery of a learning target. Examples of ungraded assignments may include but are not limited to warm ups and homework.

**Retake Procedures:** Students are permitted multiple opportunities for mastery of learning targets. To be eligible for a retake opportunity, the student must engage in a relearning plan defined by the teacher. This process can include homework completion, completing missing assignments, meeting with the teacher for additional support or another strategy developed by the teacher. It may also include a student submitting a plan of relearning which includes evidence of the relearning before the assessment can be redone.

### **Contact Information:**

**For Students:** If you have questions about classwork, homework, tests, etc. the fastest way to reach me is through the Edmodo application. I will use Edmodo to post documents; it is important that you are a member of this page. The link to the Edmodo page will be set up on school messenger. Email is also a good way to contact me. Make sure all correspondence via email is done through your school approved gmail or outlook account.

**For Parents:** The best way to contact me is through email at [grandyca@pwcs.edu](mailto:grandyca@pwcs.edu). Please encourage your student to be proactive and self-advocate. Both students and parents should check Parent Portal weekly and address any concerns as soon as they arise. I am flexible and willing to help in most circumstances, however, it is very difficult to provide assistance at the last minute or at the end of the quarter/semester/year. The use of SchoolMessenger, Parent Portal, Edmodo and email will be extremely beneficial in monitoring your student's progress.

### **Calculators:**

We will have Texas Instruments TI-84 Plus calculators for use while students are in class.

**Additional Information:** AP Calculus can be a challenging course for many students. Please take full advantage of the following opportunities for support:

- After-school help. I, as well as other members of the math team, will be available for after school help on days and times TBA. The National Honors Society and the Math Honors Society will both provide free tutoring.
- Class website. Posting of class notes
- Google: Technology is an important innovation in today's education system. If a student should find a particular homework assignment difficult, we encourage them to use Google, YouTube and Khan Academy in addition to their notes.
- Reliable Math Help Websites: There are many education websites that you find using google but here are several that are very reliable and help support the topics in this Geometry curriculum: [khanacademy.com](http://khanacademy.com), [purplemath.com](http://purplemath.com) and [kutasoftware.com](http://kutasoftware.com).