Calculus

Mrs. Wheeler
theresa.wheeler@qacps.org

Course Description

This is an introductory course for college bound students who desire a background in Calculus and Analytic Geometry before entering a math or science-oriented major in college. Limits and differential calculus are presented with an emphasis placed on application.

Expectations*

Be Respectful
Be Present
Be Prepared
Be Mindful

*All rules/policies listed in the school/county handbooks will be followed.

Grading

50% Mastery (7)
50% Progress (at least 24)

Students may retake a Mastery Assessment (unit test) if they score below a 70%. Mastery assessments include unit tests, projects, or a cumulative assessment for the course.

Progress Assessments include classwork, homework, warm-ups, quizzes and/or other work completed for the course.

Work will be considered LATE after 3 school days and a deduction of points will occur. Late work will not be accepted after 10 school days.

Materials

- Textbook
- Notebook/Binder
- Pencils/Erasers
- Laptop/Schoology
- Calculator

Academic Honesty

All students at Queen Anne’s County High School are expected to conduct themselves with great pride in academics and the community at large. To this end, it is expected that all students will maintain academic integrity in every assignment. Work must be completed individually unless otherwise directed by the teacher. Plagiarism is a severe offense at QACHS and will result in immediate consequences. The use of Photomath and other electronic sources is a form of plagiarism.
Students must log into our class on schoology every school day to be counted as present, and they need to complete all daily work in order to keep up in the class. The teacher/school should be contacted if a student will be absent from class. Students are responsible for making up all missing work due to an absence.

### Online Learning Expectations

**Synchronous** – Join the video conference on time and have materials ready. These materials include pencil, paper, calculator and any websites needed to complete math work. Have Schoology open and ready to go in a browser. You are expected to be on the video conference for the duration of class. Please find a quiet place in your house and give yourself an area to work.

**Asynchronous** – Assignments that are asynchronous are to be done on your own; however, I am available for help during the designated asynchronous period. Also during this time you may be asked to attend a video conference for small group instruction. Small group instruction, if assigned, is mandatory.

**Check-in Day** – Every Wednesday there will be a brief 10 minute video conference or check in to provide a brief period of instruction and to ensure all students are on track with the current assignments. Students will also complete an asynchronous assignment on check-in day.

**Office Hours** – Every day except for Wednesday there are Office Hours set aside for reteaching, 1:1 or group tutoring, small group instruction and student/parent meetings. You may schedule a time during office hours for tutoring. You may also attend a tutoring or instructional video conference during office hours. Office hours are considered part of the school day, so tutoring or conferences scheduled during this time are mandatory. If there is an instructional conflict during the requested time, we will work together to find a time that works.

### Course Outcomes

In addition to studying the topics mentioned, students will be expected to demonstrate mathematical habits related to the following mathematical practices:

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

### Course Topics

- Pre-Calculus Skill Review
- Limits and Continuity
- The Derivative - Part 1
- The Derivative - Part 2
- Applications of Derivatives
- Extra Topics as Needed
1. While on Schoology, what I say and how I say it will be school appropriate.
2. I will use posts to discuss school-related content only.
3. I will use a respectful tone of voice when posting. All school rules and consequences related to harassment apply to Schoology.
4. I will use appropriate grammar instead of texting language.
5. I will not reveal any personal information on Schoology. This includes telephone numbers, addresses, emails, etc.

**Posting & Replying to Messages or Comments**

- Post a note to the whole group if your question is about something the whole group should know (assignments, instructions, due dates etc.)
- Send a note only to your teacher if you want to talk about something that doesn’t relate to everyone.
- Don’t post questions or comments about personal issues or topics. Keep private information private.
- Keep your conversations on topic.
- If you’re not sure if a word, joke, or image is okay, then it’s probably not. DO NOT write posts that tease, bully, annoy, spam, or gossip about any other person.

**Inappropriate Content**

- If you think there is something inappropriate posted on Schoology, please tell your teacher immediately!

---

**Schoology Code of Conduct**

1. While on Schoology, what I say and how I say it will be school appropriate.
2. I will use posts to discuss school-related content only.
3. I will use a respectful tone of voice when posting. All school rules and consequences related to harassment apply to Schoology.
4. I will use appropriate grammar instead of texting language.
5. I will not reveal any personal information on Schoology. This includes telephone numbers, addresses, emails, etc.

**Posting & Replying to Messages or Comments**

- Post a note to the whole group if your question is about something the whole group should know (assignments, instructions, due dates etc.)
- Send a note only to your teacher if you want to talk about something that doesn’t relate to everyone.
- Don’t post questions or comments about personal issues or topics. Keep private information private.
- Keep your conversations on topic.
- If you’re not sure if a word, joke, or image is okay, then it’s probably not. DO NOT write posts that tease, bully, annoy, spam, or gossip about any other person.

**Inappropriate Content**

- If you think there is something inappropriate posted on Schoology, please tell your teacher immediately!

---

**How to Succeed**

- Do the work
- Take good notes
- Redo the work
- Show work...all work
- Don’t give up
- Communicate with the teacher

**Attitude is a little thing that makes a big difference.**

*Winston Churchill*

**Keep a growth mindset!**

**Study Groups**

I highly encourage you to form small study groups. Find a few (2-4) students in the class that you can work well with and meet daily/weekly to help each other with concepts from the course. We can set up small group instruction with a study group as needed.