



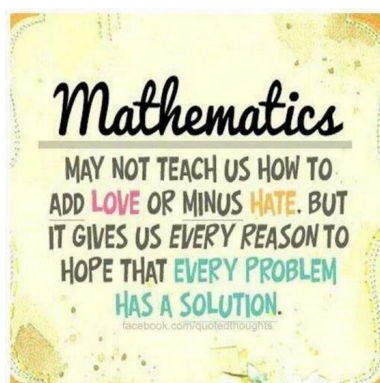
FREEDOM PROJECT  
ACADEMY

*The laws of nature are but the mathematical thoughts of God. Euclid*

## Calculus I

### Course Description:

My hope and prayer is you will come to know God in this course by seeing His patterns, order, and wisdom in the amazing and glorious world around us through mathematics. Calculus concepts in the first half of the textbook will be introduced by using prior knowledge of algebra, trigonometry, and analytical geometry concepts and using it to apply to and learn new concepts including derivatives, integrals, the graphing calculator, and applications to STEM fields. Each lesson builds on past concepts learned so it is very important that each concept is mastered. Math, even calculus, is not something you are good at or not good at. It is something you learn or don't learn. You can master anything if you will stay organized and manage your time to engage in learning, practice new concepts, learn from mistakes and how to avoid them, and ask questions.



Classroom Live:      Sec 1: M/T/W/Th 7am pst/8am mst/9am cst/10am est

Teacher Talk: Tuesday 2pm pst/ 3pm mst/ 4pm cst/ 5pm est

**Course Materials:**

- *Saxon Calculus with trigonometry and analytical geometry 2nd edition* textbook
- ruler
- graphing paper/quad ruled notebook
- TI-83 or TI-84 graphing calculator



**Grading:**

Calculus students generally maintain at least a B- or above and such mastery is necessary for future math courses. Your math skills and knowledge coming in should be such that you will have success in this course.

- 45% of student's grade will be homework from each lesson
- 35% of student's grade will be tests
- 15% of student's grade will be the semester and final exam
- 5% of student's grade will be participation

The FPE grading scale is:

97-100 A+	87-89 B+	77-79 C+	67-69 D+
93-96 A	83-86 B	73-76 C	65-66 D
90-92 A-	80-82 B-	70-72 C-	0-64 F

**Class expectations:**

- Read the lessons to be covered prior to coming to Classroom Live.
- Join live class on time. Please do not enter late and disrupt class by asking what you missed.
- Attendance is important to understand the concept and the written work that will demonstrate understanding.
- Learning is rarely accomplished by just watching. Do the examples with the class.
- Take detailed notes neatly and orderly, not screen shots.
- Ask questions if you do not understand a concept or how to show your work properly.

## Formula Sheet

Keep an organized sheet of formulas, equations, rules, etc. that can be used for easy reference and study. Notes are used for learning new concepts. A formula sheet is a collection of reminders of concepts already mastered.

### Participation (5% of grade):

- You have reached the rhetorical stage of your educational development and are expected to participate in class, share thoughts and ideas, and help your fellow classmates.
- Please be RESPECTFUL of other classmates during our time in the classroom. (We love to have fun but we also need to stay on task.)
- 2 of the lowest participation scores are dropped from grades each semester.

### Ways to earn 10 participation points each week:

- Comment, respond, or ask a question in chat, q&a, or poll pod (1 point)
- Comment, respond, or ask a question using your microphone (2 points)
- If you are not able to attend a live class, you can share something you learned from the recording in the assignment comments of the next lesson submitted. (1 point each comment)

### Assignments (45% of grade):

- Three to four lessons will be covered each week. Weeks with 3 lessons due will have a test.
- Sort Canvas assignments by “type”, not “date” and please do not use Canvas calendar or to do list.
- The DUE date is not the day you should DO the assignment!! You should begin as soon as possible after the lesson is given while the concept is fresh in your mind and plan according to your schedule and activities.
- Weekly assignment sheets are posted 2 weeks in advance, containing the current week and next week assignments.
- No extensions will be given for unexcused late submissions, a test that has been closed for submission, or incorrect/blank submissions.
- The 3 lowest assignment grades will be dropped each semester to allow some grace for situations that are not excused.

- You should NOT have the answers to homework or tests in your possession nor on your computer. There are, however, answers to the odd-numbered problems at the end of the textbook that you may refer to.
- Homework answers will be submitted as an online quiz AND submission of written work as a merged PDF.

#### Lesson Answers Assignment (1 pt for each correct answer)

- Answers must be entered for written work to be graded.
- Scores will not be corrected for accidentally clicking a wrong answer so choose carefully. If answer is correct on your written work, you can let me know and I will give you credit for the written work.
- Self-correction is a valuable part of learning so you are given a **second attempt** to correct any answers using notes, formula sheet, and recordings to review concepts. Highest score will be used.
- You will be given the correct answer after the second attempt and have one more attempt to correct your written work.

#### Written work (2pts for each question)

- Use graph paper or a quad ruled paper, using at least 2 pages.
- Organize your work legibly and neatly, using no more than 2 columns.
- Work is graded based on showing process, concept, and method that is modeled in class rather than just writing the correct answer.
- **Additional credit** can be earned if your written work is corrected to show how you arrived at the answer once it is given after the second attempt on Canvas. Please identify the problem #'s corrected in the assignment comments.
- If you are unable to determine how to correct your work and assuming you started the assignment before the due date, then you can ask about any questions from the homework at the end of the next class, in teacher talk, or tutoring. If they are not able to get it correct before the due date, there are no resubmissions but you can ask for additional feedback in the assignment comments, and work on getting the concept correct on future lessons.
- Written work will NOT be accepted as a message or attachment in Canvas.

**Extra credit:**

- Taking second attempts and correcting written work are opportunities to earn additional credit for each assignment.
- Students can also earn extra credit by correcting any mistakes/typos in class or on Lesson Answers homework assignments.
- Students are expected to improve their grade through self-correction throughout the school year. Arbitrary extra credit is not given at the end of the semester or school year.

**Exams (Weekly exams 35% of grade, semester exams 15% of grade):**

- Exams are for you to demonstrate the mastery you have gained therefore you are only given one attempt for exams so prepare carefully.
- Master concepts through participating in class, asking questions, taking second attempts and correcting written work, and/or coming to teacher talk prior to taking your exams.
- Exams will open on Thursday and be due on Friday, with a 3 hour time limit, so please do not open your test unless you have reserved the time to take it in full.
- Should you need to take the exam on a different day than assigned, please request to take it early at least 24 hours in advance of the day you plan on taking it. I do not always get to my messages the day they are received.
- One weekly exam grade is dropped each semester.

Should you have questions that are not covered in this syllabus, please contact Mrs. Newell directly.

**I look forward to a mathematical year with a mature and enjoyable group!!**

I, (student name) \_\_\_\_\_, have read the class expectations for Calculus I agree to do my own work, not using solutions in any format.

Student Signature \_\_\_\_\_

I, (parent name) \_\_\_\_\_, have read the class expectations for Calculus I and agree to keep any solutions in any format away from student access.

Parent Signature \_\_\_\_\_