

2025-26 LIVE CALCULUS CLASS SYLLABUS

Tuesdays: 10-11 AM Central Time

[Can I start working on my course before class starts?](#)

Orientation: 2 weeks before class starts, parents will receive an orientation video that explains all the information in this syllabus, as well as how to use the eLearning course & Webex. To ensure you receive all emails, please add support@diveintomath.Zendesk.com to your contacts in your email account.

Required Supplies:

- **Curriculum:** Purchase the self-paced [eLearning Shormann Calculus](#). While it can be purchased anytime, we recommend at least three weeks before classes start. If you want to start working on the course earlier, please read the article at the top of this page.
- 1-inch 3-ring binder with dividers and college rule or typing paper (typing paper is preferred), mechanical pencils and erasers
- Headphones or speaker (optional: microphone or you can message instead)
- Drawing Compass & Ruler **OR** [GeoGebra App](#) (recommended)
- Calculator: Learn More: [Dr Shormann's Calculator Recommendations](#)
- PDF Binder: You need to be able to convert your handwritten homework into a digital .pdf format with [all pages in one PDF](#). **I recommend an app called TurboScan (~\$10). You can use others but we only provide support for TurboScan.** It can be purchased on the Apple App Store as well as for Android devices. [Click here](#) for step-by-step instructions on using the TurboScan app.

Assignments & Homework: The eLearning Course:

The eLearning course is where students complete daily assignments (video lessons and homework) and take quizzes and exams. Please read the [Teacher's Guide](#) for more information on using the Shormann eLearning course.

Sample weekly schedule for Calculus:

Day 1: Do 1 lesson (2 hr).

Day 2: Do 1 lesson (2 hr).

Day 3: Do 1 lesson (2 hr).

Day 4: Do 1 lesson (2 hr)

Day 5: Online Class Meeting. Upload Homework and study for the quiz.

Tips for Success

- **Spread assignments out over at least 4 days.** Doing all the homework in two or three days will decrease fluency.
- **Limit math to an hour and half to two hours per day.** If more time is needed, work on math another 1-2 days.
- **Print and follow the steps on the Practice Set Instructions** (linked on the eLearning home page and Teacher's Guide).
- **Email me right away** if you feel overwhelmed or can't do your work. The longer you wait the further behind you will get and the longer it will take to catch up.

Format for Homework & Notes:

- Use typing paper.
- Fold your paper in half, forming two columns, and work problems vertically in both columns, front and back.
- For problems in the Practice Set, **grade your handwritten work with a red pen**, and mark each problem with an X if incorrect or \checkmark if correct.
- **Rework all missed problems in red**, writing the correct solution next to the missed problem.
- Put your name and lesson number on the top right corner of each page. Show your work. If you don't show work, you will not receive full credit.

Turn in Homework & Lecture Notes Before Class Starts

Your name and assignment number should be on the top right corner of the front page. Remember these things when uploading your homework:

- 1) **PDF is the only acceptable file format.** All homework for one week must be combined into one file, or "PDF binder". Not a "zip" file but a PDF file.
- 2) **don't exceed 5 MB per file.** In other words, the single PDF file containing all your work for that week must not exceed 5 MB in size. Resize your files if necessary.
- 3) **See PDF binder in required supplies on page 3.**

Live Class Meetings: Webex

We use Webex for live class meetings. Each week, you will receive a meeting invitation in your email, which will have a link to attend that week's class.

Class time will involve reviewing the week's lessons, taking a quiz and discussing the results, and answering questions you have. You can also email me during the week with questions at drshormann@gmail.com.

You can ask questions via chat or voice (headset with microphone required). Students use the text area to "chat" publicly with other students. Conversations will end when class begins. Any inappropriate conversations will not be tolerated and will be reported to your parents. If you have a question about a math problem or concept, you can send it to me as either a public or private chat message.

Grading

At the end of the year, the two lowest homework and quiz grades will be dropped. You will receive an evaluation after every quarterly exam. You can check your grade any time online. You will receive a certificate of completion if your average is 75% or greater.

- Homework is worth 20%.
- Class participation is worth 5%, and is based primarily off attendance, plus an obvious effort to respond when questions are asked.
- The four quarterly exams are worth 40%, and the in-class quizzes worth 35%.

Exams

If you have been completing your work at home **with integrity**, making 80% or better on most quizzes, and you follow the [How to Study for Exams](#), you should do well on the quarterly exams.

Absences:

- Class Meetings are recorded.
- To allow for absences, at the end of the year I drop the two lowest weekly quiz grades and two lowest homework upload grades. If you are absent two times or fewer, then the work you didn't turn in will not affect your grade. Of course, you still need to do the work or you will struggle in the remainder of the course.
- I WILL NOT ACCEPT LATE WORK (but I will accept it early if you know you will be missing class on a certain date).

- **PLEASE DO NOT ASK TO TURN WORK IN LATE.** If you have to miss class more than two times and you are concerned about it affecting your grade, then please talk to me and we will work something out.

Conduct:

A good student will be attentive while I am talking, will come to class prepared and on time, and will treat everyone with respect and kindness. They will also meet the participation requirements described below. Also, do your homework with integrity! If your homework is consistently perfect, but you consistently fail the weekly quizzes, that is almost always a sign of cheating on homework, and you will be asked to drop the class. Strive to be a good student!

Participation:

Getting all your schoolwork done each week can be challenging, but I won't be doing you any favors by letting you get by with little or no homework completed for multiple weeks. At a minimum, each week you must turn in 2 homework assignments and complete the in-class quiz. If, for any 3-week period, you fail to meet the minimum requirement, and/or show little effort to complete more than the minimum requirement, you will be asked to drop the class.

SAT/ACT tests: Together, Shormann Math Algebra 1 and 2 cover all the content on **both** the ACT and SAT exams. Just like you take practice exams to help you prepare for the Shormann Math quarterly exams, we recommend that, prior to your SAT or ACT exam, you use some type of prep course containing at least 2 practice exams. Learn more about how to prepare for [PSAT, SAT, and ACT here](#).

Should you take the CLEP or AP Calculus exam? Shormann Calculus covers all the content on the CLEP Calculus Exam and the AP Calculus AB exam. Both exams give credit for college-level Calculus I. The main difference between them is that the AP exam is longer and contains a handwritten component. It is also more widely accepted than the CLEP exam, especially by science and engineering departments. Students who can make 90s or better on the Shormann Calculus quarterly exams and most quizzes are encouraged to take the CLEP or AP. These exams can earn up to three or four college credits, validates your transcript, and can boost applications in the scholarship and admissions application process. Thousands of colleges accept CLEP and AP credits, but even if the college you attend does not accept them, passing either exam will show the college you plan to attend that you are capable of college-level work. We will provide our CLEP Professor Calculus course (practice exams, review lessons and practice problems) to you for free if you want to take this exam.

How to read the Assignment Chart: The chart is set up as a weekly schedule that shows you what work is due each week. Make sure you complete everything in the "Lessons Due" column **BEFORE** you come to class on the Tuesday date listed. Make special note of the 4 quarterly exam dates. On these weeks, students study for their quarterly exam and take the exam during class. Start your new lessons the day after class.

2025-26 Weekly Assignment Chart: Live Calculus

HAVE YOUR MATH BINDER, CALCULATOR, AND A PENCIL FOR EVERY CLASS!

Week #	Class Date	Lessons Due Before Class
1	Aug. 19	Lessons 1-3
2	Aug. 26	Lessons 4-6
No Class - Labor Day	Sep. 2	-
3	Sep. 9	Lessons 7-9
4	Sep. 16	Lessons 10-12
5	Sep. 23	Lessons 13-15
6	Sep. 30	Lessons 16-18
7	Oct. 7	Lessons 19-20
8	Oct. 14	Study for 1st Quarter Exam, take exam during class.
9	Oct. 21	Lessons 21-23
10	Oct. 28	Lessons 24-26
11	Nov. 4	Lessons 27-30
12	Nov. 11	Lessons 31-34
13	Nov. 18	Lesson 35-37
No Class - Thanksgiving	Nov. 25	-
14	Dec. 2	Lesson 38-40
15	Dec. 9	Study for 2 nd Quarter Exam, take exam during class.
No Class - Christmas	Dec. 16, 23, 30, Jan 6	-
16	Jan. 13	Lessons 41-43
17	Jan. 20	Lessons 44-46
18	Jan. 27	Lessons 47-49
19	Feb. 3	Lessons 50-52
NO Class - Winter Break	Feb. 10	-
20	Feb. 17	Lessons 53-55
21	Feb. 24	Lessons 56-58
22	Mar. 3	Lessons 59-60
23	Mar. 10	Study for 3 rd Quarter Exam, take exam during class.
No Class - Spring Break	Mar. 17	-
24	Mar. 24	Lessons 61-63
25	Mar. 31	Lessons 64-67
26	Apr. 7	Lessons 68-71
27	Apr. 14	Lessons 72-74
28	April 21	Lessons 75-77
29	April 28	Lessons 78-80
30	May 5	Study for 4 th Quarter Exam, take exam during class.

COURSE SEQUENCE

NOTE: Lessons 1-25 introduce fundamental rules and definitions covered in the 10 major topics of Shormann Calculus, plus review of Shormann Precalculus. Because this is a beta-version, the following is subject to change.

Lesson 1	Number I
Lesson 2	Ratio I
Lesson 3	Algebra I
Lesson 4	Algebra II
Lesson 5	Algebra III
Lesson 6	Geometry I
Lesson 7	Geometry II
Lesson 8	Analytical Geometry I
Lesson 9	Analytical Geometry II
Lesson 10	Analytical Geometry III
Lesson 11	Analytical Geometry IV
Lesson 12	Measurement I
Lesson 13	Measurement II
Lesson 14	Trigonometry I
Lesson 15	Trigonometry II
Lesson 16	Trigonometry III
Lesson 17	Calculus I
Lesson 18	Calculus II
Lesson 19	Calculus III
Lesson 20	Calculus IV
Lesson 21	Calculus V
Lesson 22	Statistics I

Lesson 23	Computer Math I
Lesson 24	Computer Math II
Lesson 25	Computer Math III
Lesson 26	Limits with Special Properties
Lesson 27	Derivatives of Products and Quotients
Lesson 28	Derivatives of Elementary Functions
Lesson 29	Derivatives of Composite Functions I, the Chain Rule
Lesson 30	What is an antiderivative?
Lesson 31	Related Rates I
Lesson 32	Critical Numbers
Lesson 33	Basic Integration Formulas
Lesson 34	Max and Min
Lesson 35	Limit Definition of an Integral
Lesson 36	Limit Definition of an Integral II
Lesson 37	Implicit Differentiation
Lesson 38	Concavity and Inflection points
Lesson 39	Graphs of f , f' and f'' I
Lesson 40	Definite Integrals I
Lesson 41	L' Hopital's Rule
Lesson 42	Extreme Value Problems I
Lesson 43	Fundamental Theorem of Calculus, basic form
Lesson 44	More on Slope at a point and Tangent Lines
Lesson 45	Definite Integrals of sums and differences, reversal of intervals
Lesson 46	Derivatives of Inverse Functions I

Lesson 47	Critical Number Applications I
Lesson 48	Particle Velocity and Acceleration II
Lesson 49	Derivatives of Inverse Functions II
Lesson 50	Integration by u Substitution
Lesson 51	Derivatives of Composite Functions II
Lesson 52	Average and Instantaneous Rates
Lesson 53	Antiderivatives and position functions I
Lesson 54	Graphs of f , f' , and f'' II
Lesson 55	Integration by Change of Variable
Lesson 56	Critical Number Applications II
Lesson 57	Antiderivatives and position functions II
Lesson 58	Related Rates II
Lesson 59	Fundamental Theorem of Calculus, Integral of a Derivative
Lesson 60	Solids of Revolution: Disk method
Lesson 61	Definite Integrals and Discontinuities, such as jump discontinuities
Lesson 62	Applications of the Definite Integral: Average Value
Lesson 63	Integration by Parts
Lesson 64	Applications of the Definite Integral: Area and solving integrals
Lesson 65	Integration: Use of Identities for substitution
Lesson 66	Solids of Revolution: Washer method
Lesson 67	Differential Equations: Separable Differential Equations
Lesson 68	Linear Approximations
Lesson 69	Fundamental Theorem of Calculus, Derivative of an Integral
Lesson 70	Extreme Value Problems II

Lesson 71	Applications of the Definite Integral: Area and solving integrals
Lesson 72	Antiderivatives and Growth and Decay
Lesson 73	Solids of Revolution: Shell method
Lesson 74	Differential Equations: Slope Fields
Lesson 75	Volume: Area=Base
Lesson 76	Partial Fractions; Recurrence Problems
Lesson 77	A series may be absolutely convergent, conditionally convergent, or divergent
Lesson 78	If a series converges absolutely, then it converges
Lesson 79	Tests for convergence such as nth term test, comparison test, limit comparison test, and others
Lesson 80	Intro to Taylor Polynomials