# 2025-26 LIVE PRECALCULUS CLASS SYLLABUS

Tuesdays: 11 AM-12 PM Central Time

**Students Who Used Saxon for Algebra 2: Complete the Prep Course**

**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 Precalculus with Trigonometry**. 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: 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 Precalculus:**

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 i**f 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 √ 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 Precalculus exam?** Shormann Precalculus covers all the content on the CLEP Precalculus Exam. Students who make 90s or better on the quarterly exams and most quizzes are encouraged to take the CLEP Precalculus exam. This exam can earn up to three college credits, validates your transcript, and can boost applications in the scholarship and admissions application process. Thousands of colleges accept CLEP credits, but even if the college you attend does not accept them, passing a CLEP exam will show the college you plan to attend that you are capable of college-level work. We will provide our CLEP Professor Precalculus 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 Precalculus

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

**Students Who Used Saxon for Algebra 2: Complete the Prep Course for Precalculus**

| Week # | Class Date | Lessons Due Before Class |
|---|---|---|
| 1 | Aug. 19 | Lessons 1-4 |
| 2 | Aug. 26 | Lessons 5-8 |
| No Class - Labor Day | Sep. 2 | - |
| 3 | Sep. 9 | Lessons 9-12 |
| 4 | Sep. 16 | Lessons 13-16 |
| 5 | Sep. 23 | Lessons 17-19 |
| 6 | Sep. 30 | Lessons 20-22 |
| 7 | Oct. 7 | Lessons 23-25 |
| 8 | Oct. 14 | Study for 1st Quarter Exam, take exam during class. |
| 9 | Oct. 21 | Lessons 26-29 |
| 10 | Oct. 28 | Lessons 30-33 |
| 11 | Nov. 4 | Lessons 34-37 |
| 12 | Nov. 11 | Lessons 38-41 |
| 13 | Nov. 18 | Lesson 42-45 |
| No Class: Thanksgiving Break | Nov. 25 | - |
| 14 | Dec. 2 | Lesson 46-50 |
| 15 | Dec. 9 | Study for 2nd Quarter Exam, take exam during class. |
| No Class - Christmas | Dec. 16, 23, 30, Jan 6 | - |
| 16 | Jan. 13 | Lessons 51-54 |
| 17 | Jan. 20 | Lessons 55-58 |
| 18 | Jan. 27 | Lessons 59-62 |
| 19 | Feb. 3 | Lessons 63-66 |
| NO Class - Winter Break | Feb. 10 | - |
| 20 | Feb. 17 | Lessons 67-69 |
| 21 | Feb. 24 | Lessons 70-72 |
| 22 | Mar. 3 | Lessons 73-75 |
| 23 | Mar. 10 | Study for 3rd Quarter Exam, take exam during class. |
| No Class - Spring Break | Mar. 17 | - |
| 24 | Mar. 24 | Lessons 76-80 |
| 25 | Mar. 31 | Lessons 81-84 |
| 26 | Apr. 7 | Lessons 85-88 |
| 27 | Apr. 14 | Lessons 89-92 |
| 28 | April 21 | Lessons 93-96 |
| 29 | April 28 | Lessons 97-100 |
| 30 | May 5 | Study for 4th 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 Precalculus, plus review of Shormann Algebra 2.

**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** Geometry III

**Lesson 9** Analytical Geometry I

**Lesson 10** Analytical Geometry II

**Lesson 11** Analytical Geometry III

**Lesson 12** Analytical Geometry IV

**Lesson 13** Analytical Geometry V

**Lesson 14** Measurement I

**Lesson 15** Measurement II

**Lesson 16** Trigonometry I

**Lesson 17** Trigonometry II

**Lesson 18** Trigonometry III

**Lesson 19** Calculus I

**Lesson 20** Calculus II

**Lesson 21** Calculus III

**Lesson 22** Statistics I

**Lesson 23** Statistics II

**Lesson 24** Computer Math I

**Lesson 52** Modeling of Absolute Value Functions

**Lesson 53** Nonstandard and Other Representations of Quadratic Functions

**Lesson 54** Resultant Vectors: Force Applications

**Lesson 55** Locus definition of an Ellipse

**Lesson 56** Modeling of Quadratic Functions

**Lesson 57** DeMoivre's Formula, Euler's Formula, and Complex Roots

**Lesson 58** Infinity as a Limit; Special Limits

**Lesson 59** Nonstandard and Other Representations of Square Root Functions

**Lesson 60** Balancing Chemical Equations

**Lesson 61** Modeling of Square Root Functions

**Lesson 62** Nonstandard and Other Representations of Degree 3+ Polynomial Functions, Part I

**Lesson 63** Nonstandard and Other Representations of Degree 3+ Polynomial Functions, Part II

**Lesson 64** Nonstandard and Other Representations of Rational Functions

**Lesson 65** Nonstandard and Other Representations of Exponential Functions

**Lesson 66** Nonstandard and Other Representations of Logarithmic Functions

**Lesson 67** Modeling of Exponential and Logarithmic Functions

**Lesson 68** Graphing Reciprocal and Inverse Trig Functions

**Lesson 69** Transformations of Trig Functions

**Lesson 70** Modeling of Degree 3+ Polynomials

**Lesson 71** Derivatives of Polynomials; Trig Equations of $n\theta$

**Lesson 72** Transformations of Reciprocal Trig Functions

**Lesson 73** Symbolic Forms of Piecewise Functions from Graphs

**Lesson 74** Locus Definition of a Hyperbola

**Lesson 75** Comparing General Forms of Conic and Linear Equations

**Lesson 76** Trig Problem Solving

**Lesson 77** Law of Sines

**Lesson 78** Nonstandard Solutions for Conics