

**Spring 2026**  
**Dual Credit Plane Trigonometry**  
**South Plains College/Trinity Christian High School**

**I. GENERAL COURSE INFORMATION**

- A. Instructor: Dodie Boyd
- B. Conference Hours: Red Day - 8:35-9:55, Navy Day - 12:50-2:10
- C. Phone: 806-791-6583
- D. E-mail: [dboyd@tcslubbock.org](mailto:dboyd@tcslubbock.org)
- E. Text: Trigonometry by McKeague/Turner, 7<sup>th</sup> edition (TCS provides textbook)
- F. Google Classroom Code: [fv7e5x15](#)

**II. COURSE DESCRIPTION**

**MATH 1316 Plane Trigonometry - 3 hours**

Presents trigonometric functions, formulas, solutions of right triangles and applications, variations of functions with changes in angles, trigonometric equations, identities, solutions of oblique triangles and applications, logarithmic functions, inverse functions and complex numbers. The student will learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing, planning and problem solving. The student should be able to probe for mathematical meaning and, perhaps, describe these meanings to others.

Prerequisite or corequisite: MATH 1314 passed with a C or better.

**III. CORE CURRICULUM OBJECTIVES addressed:**

- **Communications skills** – to include effective written, oral and visual communication
- **Critical thinking skills** – to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
- **Empirical and quantitative competency skills** – to manipulate and analyze numerical data or observable facts resulting in informed conclusions

**IV. STUDENT LEARNING OUTCOMES:** Upon completion of this course and receiving a passing grade, the student will be able to:

1. Compute the values of trigonometric functions for key angles in all quadrants of the unit circle measured in both degrees and radians.
2. Graph trigonometric functions and their transformations.
3. Prove trigonometric identities.
4. Solve trigonometric equations.
5. Solve right and oblique triangles.
6. Use the concepts of trigonometry to solve applications.

## **V. SUPPLIES**

3-Ring Binder, notebook paper, graphing calculator, pencils, colored pen (not black)

## **VI. GRADING POLICY - Per each quarter grading period**

Daily Work – Homework 20%, Quizzes 10%

Major Tests – 70%

There will be a major test given after each unit.

*Term Grade*

$(3\text{rd Quarter Grade} \times 4) + (4\text{th Quarter Grade} \times 4) + (\text{Final Exam} \times 2) = \text{total}/10$

*Grading Scale:*

A: 90 and above

B: 80-89

C: 70-79

F: 69 or below

All homework assignments will be graded in class. You may come in before school or during academic coaching (8:00 -8:30 am) to check your homework and ask questions. No late homework papers will be accepted after 4:00 pm that day, unless you were absent due to an illness, family illness, death in the family, school sponsored activity, etc. A homework paper is considered late if it is not in hand at the beginning of class. If possible, please let me know ahead of time if you are going to be absent. Quizzes will be given throughout the chapter as needed. Tests will be administered at the completion of each chapter.

## **VI. GENERAL/MISCELLANEOUS**

### **STUDENT RESPONSIBILITIES & EXPECTATIONS**

1. Each student is responsible for following all rules in the Parent/Student Handbook for Trinity Christian High School.
2. Come to class on time and be prepared to learn.
3. Respect all property.
4. Respect all ideas given in class and do not talk while others are speaking.
5. Exemplify academic honesty and do your very best!

### **ATTENDANCE**

Attendance and effort are the most important activities for success in this course. If you are absent, you are responsible for doing your assignment before the next class. If you decide to stop coming to class, you must go to the Counselor and obtain a withdrawal form and go through the drop procedure. A student who stops attending or misses five classes may be administratively dropped with a grade of F or W. Please talk with your professor to verify if you have successfully dropped the course.

### **MAKE-UP WORK**

If you are absent for any reason, make-up work is your responsibility. If you miss a day of class, you are responsible for getting the notes and assignment from me or on google classroom. You will be given the number of school days absent to turn in missed work for an excused absence. Failure to complete make-up work will result in a zero. Students who will miss class due to a school sponsored activity which they are aware of in advance are expected to turn work in and pick up assignments before missing the class. Any student who misses class for any reason is expected to attend academic coaching the following morning until all make-up work is completed.

**SYLLABUS STATEMENTS:** For information regarding official South Plains College statements about intellectual exchange, disabilities, non-discrimination, Title IX Pregnancy Accommodations, CARE Team, and Campus Concealed Carry, please visit <https://www.southplainscollege.edu/emergency/covid19-faq.php>

### **DIVERSITY STATEMENT**

In this class, the teacher will establish and support an environment that values and nurtures individual and group difference and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about ourselves. By promoting diversity and intellectual exchange, we will not only mirror society as it is, but also model society as it should and can be.

## Math 1316 Course Outline – Spring 2026

This schedule is tentative and subject to change. Changes will be announced in class.

Chapter	Suggested Date
1 – Sects. 1.1-1.5	01/07 – 01/22
Ch. 1 Test	01/26
2 – Sects. 2.1-2.5	01/22 – 02/03
Ch. 2 Test	02/05
3 – Sects. 3.1-3.5	02/09 – 02/13
Ch. 3 Test	02/18
4 – Sects. 4.1-4.7	02/20 – 03/02
Ch. 4 Test	03/04
5 – Sects. 5.1-5.5	03/06 – 03/27
6 – Sects. 6.1-6.4	
Ch. 5 & 6 Test	03/31
7 – Sects. 7.1-7.6	04/02 – 04/20
8 – Sects. 8.1-8.4	
Ch. 7 & 8 Test	04/22
Final	05/04 & 05/06