



SPRING 2026

Welcome to Plane Trigonometry

Meets on Monday and Wednesday at 7:00 p.m. in the Lubbock Downtown Center room B030 in Lubbock, TX

Are you ready to explore the relationship between the angles and sides of a triangle? As your instructor, I am looking forward to teaching you the math skills needed for creating satellite systems, roofing a house, creating maps, and navigating ships and aircraft.

Student Help Sessions (A.K.A. Office Hours)

Levelland Campus (M120A):

Tuesdays and Thursdays 1:00 pm – 2:00 pm

Lubbock Downtown Center (B001):

Mondays and Wednesdays 6:00 pm – 6:45 pm

Tuesdays and Thursdays 4:30 pm – 5:15 pm

Online (Virtual) (Link on Blackboard):

Mondays 9:00 am – 10:00 am

Thursdays 6:30 pm – 7:30 pm

Fridays 11:00 am – 12:00 pm

or **by appointment**

(scan QR code or use the link to make an appointment)

[Schedule an appointment](#)



KNOWLEDGE IS POWER



**Dr. Sheyleah
Harris-Plant**
(she, her, hers)

D R . H P

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What are we required to do for this class?

Our classroom is hybrid. This means the questions, exams, and lectures (as much as possible) are completed inside the class. Lecture completion, practice, and other assignments occur outside of class.

Practice problems (homework problems) will not be collected for a grade because the amount of practice each person needs is individual to their learning style and mathematical history.

COURSE LEARNING GOALS

At the end of the semester, we will be able to:

- Compute the values of trigonometric functions
- Graph trigonometric functions
- Prove trigonometric identities
- Solve trigonometric equations
- Solve right and oblique triangles
- Use the concepts of trigonometry to solve applications.

SUPPLIES & OPTIONAL TEXTS

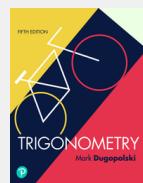
Writing Utensil



8.5 inch x 11
inch paper



Non-
Programmable
Scientific
Calculator
(No Graphing)



Trigonometry, 5th ed.
Mark Dugopolski
ISBN 9780135207338

Good Internet
Connection

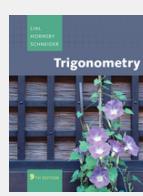


Web Camera



Trigonometry, 3rd ed.
Cynthia Young
ISBN 9780470648025

Trigonometry, 9th ed.
Margaret L. Lial
John Hornsby
David I. Schneider
ISBN 9780321528858



What are the assignments for this class?

Weekly Lecture Notes (Worth 0.50 points each)

Each week has lecture notes available to be printed and lecture videos covering the lecture notes. The lecture notes will be submitted on Blackboard and graded on completion. There will be 15 notes, with 5 notes being extra credit. Any missed lecture notes will not be allowed to be taken after the due date.

Memory Quizzes (Worth 0.50 points each)

Multiple Choice assessment that will be completed using your memory. Notes or calculators are not allowed to be used. The assignment is administered and submitted weekly in Blackboard. The assignment will be graded as correct or incorrect. There will be 14 quizzes, with 4 quizzes being extra credit. Any missed Memory Quiz will not be allowed to be taken after the due date.

Mastery Assessments (Worth 0.5 point each)

Free response assessment that you can use your notes. The purpose of the assignment is to give us a snapshot of the mastery of the course material for that week. Upload work weekly on Gradescope. There will be 15 assessments, with 5 assessments being extra credit. Any missed Mastery Assessment will not be allowed to be taken after the due date.

Learning Reflections (Worth 0.5 points each)

Answer questions on Blackboard weekly to reflect, review mistakes, and learn from them. The assignment will be graded by completion. There will be 15 assignments, with 5 assignments being extra credit. Any missed Learning Reflection will not be allowed to be taken after the due date.

Unit Exams (Worth 12 points each)

Free response assessment that you can not use your notes or practice problems. Any missed exam will not be allowed to be taken after the due date. The purpose of the assignment is to give us a snapshot of the mastery of the unit material at that time. Upload work on Gradescope. There will be 5 exams, with no extra credit assignments.

Final Exams (Worth 20 points)

Comprehensive free response assessment that you can not use your notes or practice problems. If you do not attempt the Final Exam you will earn an F for the class even if enough points to pass has been earned. There will only be one assignment at the end of the semester.

ASSIGNMENT WEIGHTS

The 100 point system is used for grading and will be the highest grade reported at the end of the semester. All assignments will add up to 100 points.

89.5 and above earn an A

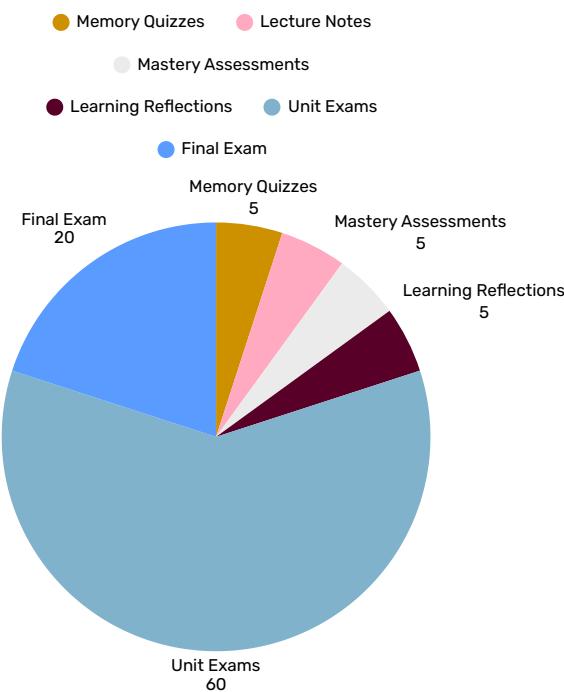
79.5 – 89.49 earn a B

69.5 – 79.49 earn a C

59.5 – 69.49 earn a D

59.49 and below earn an F

- Memory Quizzes: 5 points
- Mastery Assessments: 10 points
- Assignment Wrappers: 5 points
- Unit Exams: 60 points
- Final Exam: 20 points



Participation Expectations

Accountability

If you miss class or fall behind for any reason, all notes presented in class will be on the Class OneNote Notebook for you to access. Unfortunately, I cannot repeat material or change the schedule for the entire class. Late coursework is not accepted, nor will be allowed to be taken or submitted after the due date.

Communication

Communication is key. If you have an emergency, please let me know by email or phone **immediately**. Letting me know the following day or later makes it difficult for me to discern and assess your situation. Therefore, this makes it harder to help and work with you.

Integrity

The focus of higher education is to foster learning and encourage critical thinking. While taking shortcuts to save time or to try and earn a grade may seem like a good idea, the results usually are lower scores and losing the opportunity to learn material.

Reasonable Flexibility

Extra credit points are available for all students. If you should miss an assignment deadline those extra credit points can "replace" the missed points.

EXPECTATIONS OF INSTRUCTOR

- Show up, as scheduled.
- Provide notice of any schedule changes.
- Keep Blackboard updated with grades and materials.
- Present the material in a way that the majority of the class can understand.
- Be available to those who need assistance outside of the classroom, by e-mail or in person, during office hours or scheduled appointment times.
- Maintain the course calendar and assignments.
- Uphold the policies of the college.
- Respect each student and provide the opportunity to discuss the material presented during the lecture period.
- Provide examinations based on the information discussed in course material.

WEB & EMAIL

Emails Should Include



Your first and last name



Your class name and section



Your questions and/or comments in the body of the email (not subject line)

I Will



Check my email regularly during weekdays before 7:00 pm



Do my best to respond within 24 hours

I Will Not



Always respond immediately on weekends or holidays



Respond to parents or counselors. You are the student in an adult class and should communicate for yourself

Success Roadmap

Take Notes in Class

Each section has lecture notes presented in class in the Class OneNote Notebook. If you should miss class, the lecture notes can be found in the Class OneNote Notebook.

Practice Math Skills

Each lecture has examples worked out and some examples for you to practice. Each lecture has practice problems for you to practice your math skills.

SUGGESTED SCHEDULE

Days	Actions
Sunday	Prepare for class by gathering supplies and looking at the class calendar
Monday - Thursday	Attend class and practice skills covered in week's material
Friday- Saturday	Practice skills covered in week's material, submit assignments, or prepare for the next week

COURSE OBJECTIVES

- **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

ATTENDANCE POLICY

Attendance and engagement are the most critical activities for success in this course. The instructor maintains records of the student's attendance and submission of assignments throughout the semester. The student is expected to attend at least eighty percent (80%) of the total class meetings and submit at least eighty percent (80%) of the total class assignments to have the best chance of success. If the student fails to meet these minimum requirements, the instructor **may** remove the student from the class with an X, upon their discretion, to help the student from harming their GPA. If the student can not receive an X, the instructor will assign an F.

We Remember

by Edgar Dale

10% of what we read

20% of what we hear

30% of what we see

50% of what we see and hear

70% of what we say and write

90% of what we do

TIPS FOR SUCCESS

- Avoid distractions (cell phone, social media, games, television, or open tabs and windows on your device) when watching and working through lecture videos
- Use the resources (notes, extra videos on Blackboard, free tutoring through the college, each other, and myself) available to you
- Don't hesitate to ask for help and always communicate
- Be sure to complete the assigned work
- Read the feedback given to you on graded work to improve your skills
- Save all of your notes and work

MATHEMATICAL PRACTICES TO IMPROVE

1. Making sense of problems and persisting while solving them.
2. Engaging in productive struggle with mathematics problems.
3. Productively collaborate with others.
4. Communicate through mathematical writing.

Student Resources

Class Resources

In our Blackboard course, there are a lot of resources to help us be successful.

- All notes written in class can be found in your Class OneNote Notebook which has a link provided in Blackboard for us to access after entering our SPC credentials.
- Under Additional Resources are study tips, prerequisite math rules, graph paper, and online resources.

Free SPC Tutoring

South Plains College provides free tutoring to students. The most current schedule can be found on the [SPC Tutoring Website](#) or this QR Code.



SPC Policies

South Plains College policies concerning diversity, disabilities, non-discrimination, Title IX Pregnancy Accommodations, and Campus Concealed Carry Statements can be found here on the [SPC Policies Website](#) or this QR Code.



South Plains College policies, return to campus plan, and protocols regarding COVID-19 can be found here on the [SPC COVID-19 Policy Webpage](#).

The person who asks a question is a fool for five minutes, they who does not ask a question remains a fool forever.

– Chinese Proverb

I find that the harder I work, the more luck I seem to have.

– Thomas Jefferson

Learning is never done without errors and defeat.

– Vladimir Lenin

However difficult life may seem, there is always something you can do and succeed at.

– Stephen Hawking

Your talents and abilities will improve over time, but for that, you have to start.

– Martin Luther King, Jr

REAL LIFE EMERGENCY HELP

Sometimes life happens and we need help. This is the reason the South Plains College Health and Wellness Center has provided a list of emergency resources. This list includes, but is not limited to community food assistance, help paying bills, and other free or reduced cost programs. To find this list, please click on the *Emergency Resources* tab, and click the linked here. The site is found at [Health and Wellness Center](#) or this QR Code.



Health & Wellness

The Health and Wellness Center at South Plains College oversees the provision of mental health services, student health services, and disability services to its students. Please click below for more information on these services.

✓ Mental Health Resources
✓ Counseling @ SPC
✓ Student Health
✓ Disability Services
✓ Drug & Alcohol Prevention
✓ Title IX Pregnancy
✓ Emergency Resources
✓ Tenant Food Pantry
✓ COVID Response
✓ First Step/Non-Traditional Student Scholarship Application

Chat with us

PH: 806-716-2665

MATH BUILDING 120A

SHARRIS@SOUTHPLAINSCOLLEGE.EDU

Applications Used

Gradescope

We will use Gradescope this term, which allows us to provide fast and accurate feedback on your work. Homework will be submitted through Gradescope, and homework and exam grades will be returned through Gradescope. As soon as grades are posted, you will be notified immediately so that you can log in and see your feedback. You may also submit regrade requests if you feel that there is a mistake in the grading.

You can use your phone's camera or another scanner to upload work to Gradescope. Download the Gradescope mobile app on the **App Store** or **Google Play** to use your phone's camera and follow the prompts. If you cannot scan your assignments for any reason, please get in touch with me to make alternative arrangements. All submissions to Gradescope must be clear, legible, and double-checked to ensure all answers are properly marked. You will receive an email confirmation once your assignment is successfully submitted; please retain this for your records.

Honorlock

Honorlock will proctor your exams this semester. Honorlock is an online proctoring service that allows you to take your exam from home. You **do not** need to create an account or schedule an appointment in advance. Honorlock is available 24/7, and all required is a computer, a working webcam/microphone, your ID, and a stable internet connection.

You will need Google Chrome and download the [Honorlock Chrome Extension](#) to get started.

When you are ready to complete your assessment, log into your LMS, go to your course, and click on your exam. Clicking "Launch Proctoring" will begin the Honorlock authentication process, where you will take a picture of yourself and show your ID. You may be prompted to complete a room scan during the authentication steps. This is a test taker authentication step in which you will be asked to perform a 360-degree scan of your environment with the computer or webcam to confirm the integrity of the testing environment. Honorlock will be recording your exam session through your webcam and microphone and recording your screen. Honorlock also has an integrity algorithm that can detect search-engine use, so please do not attempt to search for answers, even if it's on a secondary device.

Honorlock support is available 24/7/365. You may contact them through live chat on the support page or within the exam itself if you encounter any issues.

Blackboard

We will use Blackboard this term, which allows is our Learning Management System (LMS). It will house all of the course materials, resources, and grades. The gradebook will automatically give a zero for any assignment not graded by the due date. Do not worry if you submitted your assignment, I will change the grade once the assignment is graded.

Download the Blackboard mobile app on the **App Store** or **Google Play** to have mobile access to Blackboard.



Spring 2026 MATH-1316-601 Tentative Calendar

Week	Day	Date	Topic	Learning Reflection Due	Memory Quiz Due	Lecture Notes Due	Mastery Assessment Due	Exam Given					
5	Mon	9 Feb	<ul style="list-style-type: none"> • Law of Sines • Law of Cosines 	Thu, 12 Feb 11:30 pm Blackboard	<i>Function Values of Radian Angles</i> Sat, 14 Feb 11:30 pm Blackboard	Sat, 14 Feb 11:30 pm Blackboard	Sun, 15 Feb 11:30 pm Blackboard	Mon, 23 Feb 7:00 pm In Class					
	Tue	10 Feb											
	Wed	11 Feb											
	Thu	12 Feb											
	Fri	13 Feb											
6	Mon	16 Feb	<ul style="list-style-type: none"> • Triangle Applications • Radian Applications 	Thu, 19 Feb 11:30 pm Blackboard	<i>Function Values of Radian Angles</i> Sat, 21 Feb 11:30 pm Blackboard	Sat, 21 Feb 11:30 pm Blackboard	Sun, 22 Feb 11:30 pm Blackboard						
	Tue	17 Feb											
	Wed	18 Feb											
	Thu	19 Feb											
	Fri	20 Feb											
7	Mon	23 Feb	Unit 2 Exam: Solving Triangles and Applications	Thu, 26 Feb 11:30 pm Blackboard	<i>Function Values of Radian Angles</i> Sat, 28 Feb 11:30 pm Blackboard	Sat, 28 Feb 11:30 pm Blackboard	Sun, 1 Mar 11:30 pm Blackboard	Mon, 9 Mar 7:00 pm In Class					
	Tue	24 Feb											
	Wed	25 Feb	<ul style="list-style-type: none"> • Characteristics of Trigonometric Functions • Sine and Cosine Graphs 										
	Thu	26 Feb											
	Fri	27 Feb											
8	Mon	2 Mar	<ul style="list-style-type: none"> • Secant and Cosecant Graphs • Tangent and Cotangent Graphs 	Thu, 5 Mar 11:30 pm Blackboard	<i>Function Values of Degree and Radian Angles</i> Sat, 7 Mar 11:30 pm Blackboard	Sat, 7 Mar 11:30 pm Blackboard	Sun, 8 Mar 11:30 pm Blackboard						
	Tue	3 Mar											
	Wed	4 Mar											
	Thu	5 Mar											
	Fri	6 Mar											

Week	Day	Date	Topic	Learning Reflection Due	Memory Quiz Due	Lecture Notes Due	Mastery Assessment Due	Exam Given
9	Mon	9 Mar	Unit 3 Exam: Trigonometric Graphs <ul style="list-style-type: none"> • Fundamental Identities • Simplifying Trigonometric Identities 	Thu, 12 Mar 11:30 pm Blackboard	Basic Identities Sat, 14 Mar 11:30 pm Blackboard	Sat, 14 Mar 11:30 pm Blackboard	Sun, 15 Mar 11:30 pm Blackboard	
	Tue	10 Mar						
	Wed	11 Mar						
	Thu	12 Mar						
	Fri	13 Mar						
No Class – Spring Break (16 March – 20 March)								
10	Mon	23 Mar	<ul style="list-style-type: none"> • Verifying Trigonometric Identities 	Thu, 26 Mar 11:30 pm Blackboard	Basic Identities Sat, 28 Mar 11:30 pm Blackboard	Sat, 28 Mar 11:30 pm Blackboard	Sun, 29 Mar 11:30 pm Blackboard	Mon, 6 Apr 7:00 pm In Class
	Tue	24 Mar						
	Wed	25 Mar						
	Thu	26 Mar						
	Fri	27 Mar						
11	Mon	30 Mar	<ul style="list-style-type: none"> • Inverse Trigonometric Functions • Solving Trigonometric Equations with Single Angles 	Thu, 2 Apr 11:30 pm Blackboard	Basic Identities Sat, 4 Apr 11:30 pm Blackboard	Sat, 4 Apr 11:30 pm Blackboard	Sun, 5 Apr 11:30 pm Blackboard	
	Tue	31 Mar						
	Wed	1 Apr						
	Thu	2 Apr						
	Fri	3 Apr						
12	Mon	6 Apr	Unit 4 Exam: Single Angle Analytical Trigonometry <ul style="list-style-type: none"> • Sum and Difference Identities • Double-Angle Identities 	Thu, 9 Apr 11:30 pm Blackboard	Basic Identities Sat, 11 Apr 11:30 pm Blackboard	Sat, 11 Apr 11:30 pm Blackboard	Sun, 12 Apr 11:30 pm Blackboard	Mon, 20 Apr 7:00 pm In Class
	Tue	7 Apr						
	Wed	8 Apr						
	Thu	9 Apr						
	Fri	10 Apr						

Week	Day	Date	Topic	Learning Reflection Due	Memory Quiz Due	Lecture Notes Due	Mastery Assessment Due	Exam Given	
13	Mon	13 Apr	<ul style="list-style-type: none"> Half-Angle and Power-Reducing Identities Sum-to-Product and Product-to-Sum Identities Solving Trigonometric Equations with Multiple Angles 	Thu, 16 Apr 11:30 pm Blackboard	<i>Multiple Angle Identities</i> Sat, 18 Apr 11:30 pm Blackboard	Sat, 18 Apr 11:30 pm Blackboard	Sun, 19 Apr 11:30 pm Blackboard	Mon, 20 Apr 7:00 pm In Class	
	Tue	14 Apr							
	Wed	15 Apr							
	Thu	16 Apr							
	Fri	17 Apr							
14	Mon	20 Apr	Unit 5 Exam: Multiple Angle Analytical Trigonometry	Thu, 23 Apr 11:30 pm Blackboard	<i>Multiple Angle Identities</i> Sat, 25 Apr 11:30 pm Blackboard	Sat, 25 Apr 11:30 pm Blackboard	Sun, 26 Apr 11:30 pm Blackboard	Mon, 4 May 7:15 pm In Class	
	Tue	21 Apr							
	Wed	22 Apr							
	Thu	23 Apr							
	Fri	24 Apr							
15	Mon	27 Apr	<ul style="list-style-type: none"> Polar Plane Complex Plane and Forms of Complex Numbers 	Thu, 30 Apr 11:30 pm Blackboard	<i>Multiple Angle Identities</i> Sat, 2 May 11:30 pm Blackboard	Sat, 2 May 11:30 pm Blackboard	Sun, 3 May 11:30 pm Blackboard	Mon, 4 May 7:15 pm In Class	
	Tue	28 Apr							
	Wed	29 Apr							
	Thu	30 Apr							
	Fri	1 May							
16	Mon	4 May	Final Exam 7:15 pm In Class	Mon, 4 May 11:30 pm Blackboard	Not due this week	Not due this week	Not due this week		
	Tue	5 May	Class is Over						
	Wed	6 May	Class is Over						
	Thu	7 May	Graduation Day						
	Fri	8 May	Graduation Day						