



**Dr. Sheyleah Harris-Plant
(Dr. HP)**

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Room 120A

Important Dates

First Day of Class
Monday, 24 August 2026

Labor Day (All campuses closed)
Monday, 7 September 2026

Last day to confirm degree and fall
commencement participation
Thursday, 1 October 2026

SPC Fall Break (All campuses
closed)
Friday, 16 October 2026

Online Registration opens
Friday, 6 November 2026

Thanksgiving Holiday (All
campuses closed)
Wednesday, 25 November 2026 –
Friday, 27 November 2026

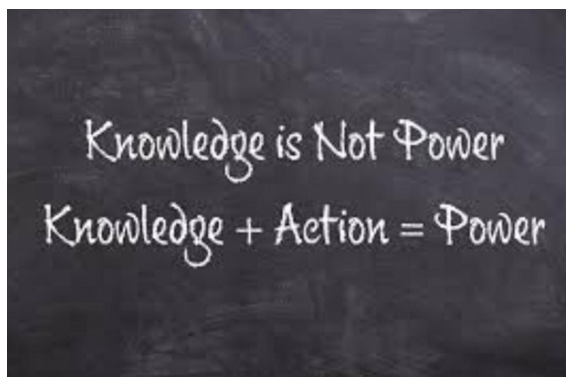
Last Day to Drop
Thursday, 3 December 2026

Final Exam Week
Monday, 7 December 2026 –
Thursday, 10 December 2026

Plane Trigonometry

MATH-1316-151 & 451

Fall 2026



Welcome to Plane Trigonometry

This is an online course that lets us study on our own schedule.

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 to create satellite systems, roof a house, create maps, and navigate ships and aircraft.

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

Downtown Center (B001):

Thursdays: 10:00 (10:00 am) – 11:00 (11:00 am) CT (Central Time)
Tuesdays and Thursdays: 14:30 (2:30 pm) – 16:30 (4:30 pm) CT (Central Time)

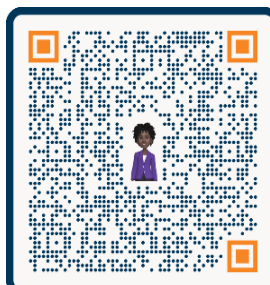
The virtual link is also found in the Blackboard Course:

Wednesdays: 10:00 (10:00 am) – 11:00 (11:00 am) CT (Central Time)
Thursdays: 19:00 (7:00 pm) – 20:00 (8:00 pm) CT (Central Time)
Fridays: 13:00 (1:00 pm) – 14:00 (2:00 pm) CT (Central Time)

or **by appointment**

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

[Schedule an appointment](#)



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.

Course Objectives

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

Class Requirements

Our classroom is online. This means the lecture material is on Blackboard.

The due dates for assignments can be found on the document class calendar, the Blackboard calendar, and the assignments in Blackboard.

Each lecture has notes available to be printed and lecture videos covering the lecture notes. The lecture notes will be submitted and graded on completion.

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.

Our focus is on learning and mastery of the material.



Supplies

- **Writing Utensils**
Any pencil or pen that will write dark enough for an uploaded document to be read on a computer screen
- **8.5-inch by 11-inch paper or tablet**
Students can print off the lecture notes or use a tablet to download them and fill them out. If the tablet has the internet turned off during assessments, it can still be used to write assessment work.
- **Good Internet Connection and Technology**
A high-speed internet connection and a computer using macOS X 10.5 or higher, Windows Vista or higher, or ChromeOS.
- **Web camera, microphone, and speakers**
The computer accessories can be internal or external, but they must be in good working condition.
- **Non-Programmable Scientific Calculator (No Graphing Calculator)**
Graphing calculators will not be allowed during this class. The following calculators are recommended: TI-36X Pro or Casio fx-115 or equivalent.

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

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 believe there is an error 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.

Assignment Weights

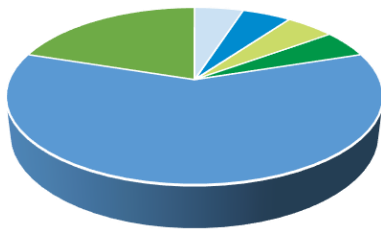
The 100-point system is used for grading, and 100 points will be the highest grade reported at the end of the semester. All assignments will add up to 100 points.

89.5 and above earns an A
79.5 - 89.49 earns a B
69.5 - 79.49 earns a C
59.5 - 69.49 earns a D
59.49 and below earns an F

- Mastery Assessments: 5 points
- Learning Reflections: 5 points
- Lecture Notes: 5 points
- Memory Quizzes: 5 points
- Unit Exams: 60 points
- Final Exam: 20 points

To find the relative (percentage) grade, divide the total points by the possible points and multiply by 100.

Grade Weight



- Learning Reflections
- Lecture Notes
- Mastery Assessments
- Memory Quizzes
- Unit Exams
- Final Exam

Class Assignments

Mastery Assessments (Worth 0.5 point each)

Free-response assessment where 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 on Gradescope. There will be 10 assessments, with no extra credit assessment. 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 Learning Reflection submitted after the due date will not be accepted.

Lecture Notes (Worth 0.5 points each)

Each week has lecture notes available for printing, along with accompanying lecture videos. The lecture notes will be submitted on Blackboard and graded on completion. There will be 15 notes, with 5 notes being extra credit. Missed lecture notes will not be accepted after the due date.

Memory Quizzes (Worth 0.5 points each)

A 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 on 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.

Unit Exams (Worth 12 points each)

Free-response assessment where you cannot 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 five (5) exams with no extra-credit assignments.

Final Exam (Worth 20 points)

A comprehensive free-response assessment where you cannot 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 have been earned. There will only be one assignment at the end of the semester.

Expectations of the 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 most 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.
- Provide examinations based on the information discussed in the course material.

Participation Expectations

Accountability

If you miss an assignment or fall behind, all notes are on Blackboard for you to access. Late coursework is not accepted, nor will it 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 earn a grade may seem like a good idea, the results are usually lower scores and the loss of the opportunity to learn the material. The consequences of being caught cheating could range from a zero on the assignment to being expelled from South Plains College and the action being recorded on your academic record.

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.

Blackboard Messages and 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)

The Instructor Will

- Check their email regularly during weekdays before 7:00 pm
- Do their best to respond within 24 hours

The Instructor 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

Inspirational Quotes

The person who asks a question is a fool for five minutes; the one 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

Student Resources

Class Resources

In our Blackboard course, there are many resources to help us succeed.

- 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](#).



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.



Fall 2026 MATH-1316-151/451 Tentative Calendar

Week	Day	Date	Topic	Learning Reflection Due	Memory Quiz Due	Lecture Notes Due	Mastery Assessment Due	Exam Due
0	Thu	20 Aug	- Class Introduction - Algebra Review	Not due this week	Not due this week	Not due this week	Not due this week	Preparatory Assignments
	Fri	21 Aug						Sun, 30 Aug 23:30 (11:30 pm) Blackboard
1	Mon	24 Aug	- Angles - Non-Acute Angles	Not due this week	Not due this week	Sat, 29 Aug by 23:30 (11:30 pm) Blackboard	Sun, 30 Aug by 23:30 (11:30 pm) Use Honorlock	Sun, 20 Sep by 23:30 (11:30 pm) Use Honorlock
	Tue	25 Aug						
	Wed	26 Aug						
	Thu	27 Aug						
	Fri	28 Aug						
2	Mon	31 Aug	Trigonometric Functions	Thu, 3 Sep by 23:30 (11:30 pm) Blackboard	Radian & Degree Measures Sat, 5 Sep by 23:30 (11:30 pm) Use Honorlock	Sat, 5 Sep by 23:30 (11:30 pm) Blackboard	Sun, 6 Sep by 23:30 (11:30 pm) Use Honorlock	
	Tue	1 Sep						
	Wed	2 Sep						
	Thu	3 Sep						
	Fri	4 Sep						
3	Mon	7 Sep	South Plains College Closed – No Classes – Labor Day					
	Tue	8 Sep	- Non-Standard Position Angles <i>Review for Unit 1 Exam</i>	Thu, 10 Sep by 23:30 (11:30 pm) Blackboard	Standard Position Trig Functions Sat, 12 Sep by 23:30 (11:30 pm) Use Honorlock	Sat, 12 Sep by 23:30 (11:30 pm) Blackboard	Sun, 13 Sep by 23:30 (11:30 pm) Use Honorlock	
	Wed	9 Sep						
	Thu	10 Sep						
	Fri	11 Sep						
4	Mon	14 Sep	- Using a Calculator - Solving Right Triangles	Thu, 17 Sep by 23:30 (11:30 pm) Blackboard	Function Values of Degree Angles Sat, 19 Sep by 23:30 (11:30 pm) Use Honorlock	Sat, 19 Sep by 23:30 (11:30 pm) Blackboard	Not due this week	Sun, 11 Oct by 23:30 (11:30 pm) Use Honorlock
	Tue	15 Sep						
	Wed	16 Sep						
	Thu	17 Sep						
	Fri	18 Sep						

Week	Day	Date	Topic	Learning Reflection Due	Memory Quiz Due	Lecture Notes Due	Mastery Assessment Due	Exam Due
5	Mon	21 Sep	• Law of Sines • Law of Cosines	Thu, 24 Sep by 23:30 (11:30 pm) Blackboard	<i>Function Values of Radian Angles</i> Sat, 26 Sep by 23:30 (11:30 pm) Use Honorlock	Sat, 26 Sep by 23:30 (11:30 pm) Blackboard	Sun, 27 Sep by 23:30 (11:30 pm) Use Honorlock	Sun, 11 Oct by 23:30 (11:30 pm) Use Honorlock
	Tue	22 Sep						
	Wed	23 Sep						
	Thu	24 Sep						
	Fri	25 Sep						
6	Mon	28 Sep	• Triangle Applications • Radian Applications	Thu, 1 Oct by 23:30 (11:30 pm) Blackboard	<i>Function Values of Radian Angles</i> Sat, 3 Oct by 23:30 (11:30 pm) Use Honorlock	Sat, 3 Oct by 23:30 (11:30 pm) Blackboard	Sun, 4 Oct by 23:30 (11:30 pm) Use Honorlock	
	Tue	29 Sep						
	Wed	30 Sep						
	Thu	1 Oct						
	Fri	2 Oct						
7	Mon	5 Oct	• Characteristics of Trigonometric Functions • Sine and Cosine Graphs	Thu, 8 Oct by 23:30 (11:30 pm) Blackboard	<i>Function Values of Radian Angles</i> Sat, 10 Oct by 23:30 (11:30 pm) Use Honorlock	Sat, 10 Oct by 23:30 (11:30 pm) Blackboard	Not due this week	
	Tue	6 Oct						
	Wed	7 Oct						
	Thu	8 Oct						
	Fri	9 Oct						
8	Mon	12 Oct	• Secant and Cosecant Graphs • Tangent and Cotangent Graphs	Thu, 15 Oct by 23:30 (11:30 pm) Blackboard	<i>Function Values of Degree and Radian Angles</i> Sat, 17 Oct by 23:30 (11:30 pm) Use Honorlock	Sat, 17 Oct by 23:30 (11:30 pm) Blackboard	Sun, 18 Oct by 23:30 (11:30 pm) Use Honorlock	
	Tue	13 Oct						
	Wed	14 Oct						
	Thu	15 Oct						
	Fri	16 Oct						

Week	Day	Date	Topic	Learning Reflection Due	Memory Quiz Due	Lecture Notes Due	Mastery Assessment Due	Exam Due
9	Mon	19 Oct	- Fundamental Identities - Simplifying Trigonometric Identities	Thu, 22 Oct by 23:30 (11:30 pm) Blackboard	<i>Basic Identities</i> Sat, 24 Oct by 23:30 (11:30 pm) Use Honorlock	Sat, 24 Oct by 23:30 (11:30 pm) Blackboard	Not due this week	Sun, 15 Nov by 23:30 (11:30 pm) Use Honorlock
	Tue	20 Oct						
	Wed	21 Oct						
	Thu	22 Oct						
	Fri	23 Oct						
10	Mon	26 Oct	Verifying Trigonometric Identities	Thu, 29 Oct by 23:30 (11:30 pm) Blackboard	<i>Basic Identities</i> Sat, 31 Oct by 23:30 (11:30 pm) Use Honorlock	Sat, 31 Oct by 23:30 (11:30 pm) Blackboard	Sun, 1 Nov by 23:30 (11:30 pm) Use Honorlock	
	Tue	27 Oct						
	Wed	28 Oct						
	Thu	29 Oct						
	Fri	30 Oct						
11	Mon	2 Nov	- Inverse Trigonometric Functions - Solving Trigonometric Equations with Single Angles	Thu, 5 Nov by 23:30 (11:30 pm) Blackboard	<i>Basic Identities</i> Sat, 7 Nov by 23:30 (11:30 pm) Use Honorlock	Sat, 7 Nov by 23:30 (11:30 pm) Blackboard	Sun, 8 Nov by 23:30 (11:30 pm) Use Honorlock	
	Tue	3 Nov						
	Wed	4 Nov						
	Thu	5 Nov						
	Fri	6 Nov						
12	Mon	9 Nov	- Sum and Difference Identities - Double-Angle Identities	Thu, 12 Nov by 23:30 (11:30 pm) Blackboard	<i>Basic Identities</i> Sat, 14 Nov by 23:30 (11:30 pm) Use Honorlock	Sat, 14 Nov by 23:30 (11:30 pm) Blackboard	Not due this week	
	Tue	10 Nov						
	Wed	11 Nov						
	Thu	12 Nov						
	Fri	13 Nov						

Week	Day	Date	Topic	Learning Reflection Due	Memory Quiz Due	Lecture Notes Due	Mastery Assessment Due	Exam Due	
13	Mon	16 Nov	- Half-Angle and Power-Reducing Identities - Sum-to-Product and Product-to-Sum Identities - Solving Trigonometric Equations with Multiple Angles	Thu, 19 Nov by 23:30 (11:30 pm) Blackboard	Multiple Angle Identities Sat, 21 Nov by 23:30 (11:30 pm) Use Honorlock	Sat, 21 Nov by 23:30 (11:30 pm) Blackboard	Sun, 22 Nov by 23:30 (11:30 pm) Use Honorlock	Sun, 29 Nov by 23:30 (11:30 pm) Use Honorlock	
	Tue	17 Nov							
	Wed	18 Nov							
	Thu	19 Nov							
	Fri	20 Nov							
14	Mon	23 Nov	- Vectors and Dot Product - Vector Applications	Thu, 26 Nov by 23:30 (11:30 pm) Blackboard	Multiple Angle Identities Sat, 28 Nov by 23:30 (11:30 pm) Use Honorlock	Sat, 28 Nov by 23:30 (11:30 pm) Blackboard	Not due this week	Wed, 9 Dec by 23:30 (11:30 pm) Use Honorlock	
	Tue	24 Nov							
	Wed	25 Nov		South Plains College Closed – No Class – Thanksgiving Break					
	Thu	26 Nov							
	Fri	27 Nov							
	15	Mon		30 Nov	- Polar Plane - Complex Plane and Forms of Complex Numbers	Thu, 3 Dec by 23:30 (11:30 pm)	Multiple Angle Identities Sat, 5 Dec by 23:30 (11:30 pm)		Sat, 5 Dec by 23:30 (11:30 pm)
Tue		1 Dec							
Wed		2 Dec	<i>Last Day to Drop a Class</i>						
Thu		3 Dec							
Fri		4 Dec	Blackboard	Use Honorlock		Blackboard	Use Honorlock		
16	Mon	7 Dec	<i>Study for the Final Exam</i>	Wed, 9 Dec by 23:30 (11:30 pm) Blackboard	Not due this week	Not due this week	Not due this week		
	Tue	8 Dec							
	Wed	9 Dec	Final Exam Due by 23:30 (11:30 pm) Use Honorlock						
	Thu	10 Dec	Semester Over						
	Fri	11 Dec	Graduation Day						