PRECALCULUS

Math-2412-151/451

KNOWLEDGE IS POWER

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

DR. HP

SPRING 2026

Welcome to Precalculus

This is an online course that allows for us to study according to your schedule, but assignments have due dates.

Are you ready to explore the integrated algebra, trigonometry, and analytic geometry skills used in Calculus? As your instructor, I am looking forward to providing you the opportunity to acquire and practice the math skills needed to be successful in Calculus.

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

CONTENTS

1 What will we learn in this class?

2 What are we required to do in this class?

3 How do we pass this class?

4 What resources do we have to be successful?

PH: 806-716-2665

MATH BUILDING 120A

SHARRIS@SOUTHPLAINSCOLLEGE.EDU

What are we required to do for this class?

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.

COURSE LEARNING GOALS

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

- Apply knowledge of properties of functions.
- Solve algebraic and transcendental equations.
- Apply graphing techniques to algebraic and transcendental functions.
- Compute the values of trigonometric functions for key angles in all quadrants of the unit circle measured in both degrees and radians.
- Prove trigonometric identities.
- Solve right and oblique triangles.

SUPPLIES

Writing Utensil

8.5 inch x 11 inch paper

Non-Programmable Scientific Calculator
(No Graphing)

Good Internet Connection

Web Camera

What are the assignments for this class?

Weekly Lecture Notes (Worth 0.50 points each)
Each lecture's 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 submitted 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 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.

Mastery Assessments (Worth 0.5 point each)
Free response assessment where you can use your notes. The assignment is administered and submitted weekly on Blackboard. 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, where you can not use your notes or practice problems. Any missed exam will not be allowed to be taken after the due date. The assignment is administered and submitted in class. There will be 6 exams, with no extra credit assignments.

Final Group Project (Worth 10 points)
Each group will create and record a lecture from a skeleton lecture provided on skills directly applicable to Calculus. The instructor will assign the groups. The project grade will be part of each student's final exam grade and will consist of multiple parts.

Written Final Exams (Worth 10 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 the highest grade reported at the end of the semester. All assignments will add up to 100 points.
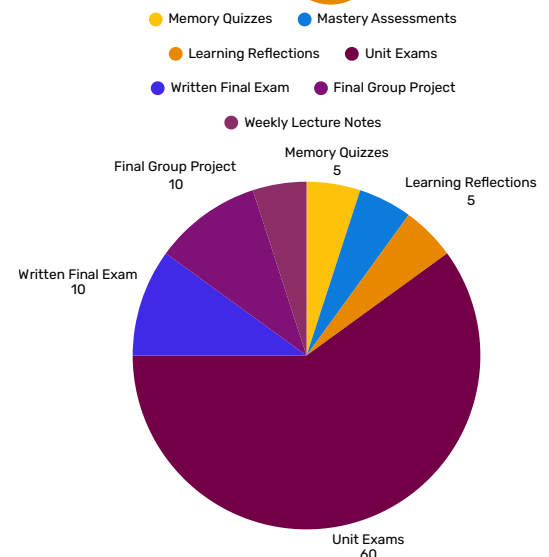
89.5 and above earn an A
79.5 - 89.49 earn a B
69.5 - 79.49 earn a C
59.5 - 69.49 earn a D
59.49 and below earn an F

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

Legend:
- Memory Quizzes
- Mastery Assessments
- Learning Reflections
- Unit Exams
- Written Final Exam
- Final Group Project
- Weekly Lecture Notes

Pie chart labels:
- Final Group Project 10
- Memory Quizzes 5
- Learning Reflections 5
- Written Final Exam 10
- Unit Exams 60

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

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 earn a grade may seem like a good idea, the results usually are lower scores and losing the opportunity to learn material. The consequences of being caught cheating could be between a zero on the assignment to being expelled from South Plains College.

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.

BLACKBOARD MESSAGES & 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 messages 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

PH: 806-716-2665

MATH BUILDING 120A

SHARRIS@SOUTHPLAINSCOLLEGE.EDU

Success Roadmap

Watch Videos

Each section has lecture videos embedded in Blackboard in the Course Content for each week.

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 the next week by gathering supplies and looking at the class calendar
Monday – Thursday	Watch lecture videos and practice skills covered in week's material
Friday-Saturday	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

NETIQUETTE: INTERNET ETIQUETTE

- Make sure identification is clear in all communications. Begin with a salutation ("Good afternoon, Dr. HP!") and end with your signature ("Hannah Kay, Plane Trigonometry Section 151").
- Be respectful. If you wouldn't say it to someone's face, don't say it online.
- Read everything out loud before you send it.
- Be careful with humor and sarcasm. Everyone does not read comments the same. Will everyone get the joke?
- Yes, grammar, spelling, and punctuation matter.
- Words have meaning.
- Don't post or share (even privately) inappropriate material. Nothing is truly private online.
- Be aware of strong language, all caps (IS SHOUTING), and exclamation points. They can be misinterpreted as intense anger or humor without the appropriate context.

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

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
- Texan Food Pantry
- COVID Response
- First Step/Non-Traditional Student Scholarship Application

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-2412-151/451 Tentative Calendar

Week	Day	Date	Topic	Learning Reflection Due	Memory Quiz Due	Lecture Notes Due	Mastery Assessment Due	Exam Due
0	Thu	8 Jan	• Class Introduction • Algebra Review	Not due this week	Not due this week	Not due this week	Not due this week	*Preparatory Assignments* Sun, 18 Jan 11:30 pm **Blackboard**
	Fri	9 Jan						
1	Mon	12 Jan	• Angles • Non-Acute Angles	Not due this week	Not due this week	Sat, 17 Jan 11:30 pm **Blackboard**	Sun, 18 Jan 11:30 pm **Blackboard**	Sun, 1 Feb 11:30 pm **Blackboard**
	Tue	13 Jan						
	Wed	14 Jan						
	Thu	15 Jan						
	Fri	16 Jan						
2	Mon	19 Jan	• Functions and Function Notation • Linear Functions • Quadratic Functions • Polynomial Functions	No School – Martin Luther King, Jr Day				
	Tue	20 Jan		Thu, 22 Jan 11:30 pm **Blackboard**	*Radian & Degree Measures* Sat, 24 Jan 11:30 pm **Blackboard**	Sat, 24 Jan 11:30 pm **Blackboard**	Sun, 25 Jan 11:30 pm **Blackboard**	
	Wed	21 Jan						
	Thu	22 Jan						
	Fri	23 Jan						
3	Mon	26 Jan	• Radical Functions • Rational Functions • Trigonometric Functions • Non-Standard Position Angles	Thu, 29 Jan 11:30 pm **Blackboard**	*Radian & Degree Measures* Sat, 31 Jan 11:30 pm **Blackboard**	Sat, 31 Jan 11:30 pm **Blackboard**	Sun, 1 Feb 11:30 pm **Blackboard**	Sun, 15 Feb 11:30 pm **Blackboard**
	Tue	27 Jan						
	Wed	28 Jan						
	Thu	29 Jan						
	Fri	30 Jan						
4	Mon	2 Feb	• Trigonometric Function Graphs • Exponential Functions • Logarithmic Functions	Thu, 5 Feb 11:30 pm **Blackboard**	*Standard Position Trig Functions* Sat, 7 Feb 11:30 pm **Blackboard**	Sat, 7 Feb 11:30 pm **Blackboard**	Sun, 8 Feb 11:30 pm **Blackboard**	
	Tue	3 Feb						
	Wed	4 Feb						
	Thu	5 Feb						
	Fri	6 Feb						

Week	Day	Date	Topic	Learning Reflection Due	Memory Quiz Due	Lecture Notes Due	Mastery Assessment Due	Exam Due
5	Mon	9 Feb	• Properties of Logarithmic Functions • Fundamental Identities • Sum and Difference Identities • Double-Angle Identities	Thu, 12 Feb 11:30 pm **Blackboard**	*Standard Position Trig Functions* Sat, 14 Feb 11:30 pm **Blackboard**	Sat, 14 Feb 11:30 pm **Blackboard**	Sun, 15 Feb 11:30 pm **Blackboard**	Sun, 1 Mar 11:30 pm **Blackboard**
5	Tue	10 Feb						
5	Wed	11 Feb						
5	Thu	12 Feb						
5	Fri	13 Feb						
6	Mon	16 Feb	• Half-angle and Power-Reducing Identities • Sum-to-Product and Product-to-Sum Identities • Combining Functions • Inverse Functions	Thu, 19 Feb 11:30 pm **Blackboard**	*Function Values of Degree Angles* Sat, 21 Feb 11:30 pm **Blackboard**	Sat, 21 Feb 11:30 pm **Blackboard**	Sun, 22 Feb 11:30 pm **Blackboard**	
6	Tue	17 Feb						
6	Wed	18 Feb						
6	Thu	19 Feb						
6	Fri	20 Feb						
7	Mon	23 Feb	• Transformations • Binomial Expansion • Rates of Change	Thu, 26 Feb 11:30 pm **Blackboard**	*Function Values of Degree Angles* Sat, 28 Feb 11:30 pm **Blackboard**	Sat, 28 Feb 11:30 pm **Blackboard**	Sun, 1 Mar 11:30 pm **Blackboard**	Sun, 15 Mar 11:30 pm **Blackboard**
7	Tue	24 Feb						
7	Wed	25 Feb						
7	Thu	26 Feb						
7	Fri	27 Feb						
8	Mon	2 Mar	• Symbolic Algebraic Manipulation • Verifying Trigonometric Identities	Thu, 5 Mar 11:30 pm **Blackboard**	*Function Values of Radian Angles* Sat, 7 Mar 11:30 pm **Blackboard**	Sat, 7 Mar 11:30 pm **Blackboard**	Sun, 8 Mar 11:30 pm **Blackboard**	
8	Tue	3 Mar						
8	Wed	4 Mar						
8	Thu	5 Mar						
8	Fri	6 Mar						

Week	Day	Date	Topic	Learning Reflection Due	Memory Quiz Due	Lecture Notes Due	Mastery Assessment Due	Exam Due
9	Mon	9 Mar	• Other Types of Equations • Exponential and Logarithmic Equations • Roots of Polynomial Functions	Thu, 12 Mar 11:30 pm **Blackboard**	*Function Values of Radian Angles* Sat, 14 Mar 11:30 pm **Blackboard**	Sat, 14 Mar 11:30 pm **Blackboard**	Sun, 15 Mar 11:30 pm **Blackboard**	Sun, 5 Apr 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	• Systems of Equations • Inequalities in One Variable	Thu, 26 Mar 11:30 pm **Blackboard**	*Function Values of Degree and Radian Angles* Sat, 28 Mar 11:30 pm **Blackboard**	Sat, 28 Mar 11:30 pm **Blackboard**	Sun, 29 Mar 11:30 pm **Blackboard**	
	Tue	24 Mar						
	Wed	25 Mar						
	Thu	26 Mar						
	Fri	27 Mar						
11	Mon	30 Mar	• Partial Fractions • Sequences and Series • Geometric Sequences and Series	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**	Sun, 19 Apr 11:30 pm **Blackboard**
	Tue	31 Mar						
	Wed	1 Apr						
	Thu	2 Apr						
	Fri	3 Apr						
12	Mon	6 Apr	• Parabolas • Ellipses • Circles • Hyperbolas	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**	
	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 Due
13	Mon	13 Apr	• Using a Calculator • Solving Right Triangles • Law of Sines	Thu, 16 Apr 11:30 pm **Blackboard**	***Basic Identities*** Sat, 18 Apr 11:30 pm **Blackboard**	Sat, 18 Apr 11:30 pm **Blackboard**	Sun, 19 Apr 11:30 pm **Blackboard**	
	Tue	14 Apr						
	Wed	15 Apr						
	Thu	16 Apr						
	Fri	17 Apr						
14	Mon	20 Apr	• Law of Cosines • Triangle Applications • Radian Applications	Thu, 23 Apr 11:30 pm **Blackboard**	***Multiple Angle Identities*** Sat, 25 Apr 11:30 pm **Blackboard**	Sat, 25 Apr 11:30 pm **Blackboard**	Sun, 26 Apr 11:30 pm **Blackboard**	Wed, 6 May 11:30 pm **Blackboard**
	Tue	21 Apr						
	Wed	22 Apr						
	Thu	23 Apr						
	Fri	24 Apr						
15	Mon	27 Apr	• Vectors • Vector Applications	Thu, 30 Apr 11:30 pm **Blackboard**	***Multiple Angle Identities*** Sat, 2 May 11:30 pm **Blackboard**	Sat, 2 May 11:30 pm **Blackboard**	Sun, 3 May 11:30 pm **Blackboard**	
	Tue	28 Apr						
	Wed	29 Apr						
	Thu	30 Apr						
	Fri	1 May						
16	Mon	4 May	Review for Final Exam	Wed, 6 May 11:30 pm **Blackboard**	Not due this week	Not due this week	Not due this week	
	Tue	5 May	**Final Group Project Due by 11:30 pm**					
	Wed	6 May	**Final Exam Due by 11:30 pm Blackboard**					
	Thu	7 May	**Class is Over**					
	Fri	8 May	**Graduation Day**					