



**FALL 2025**

KNOWLEDGE IS **POWER**



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

**DR. HP**

## Welcome to Plane Trigonometry

**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 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):**

Mondays and Wednesdays 2:30 pm - 3:30 pm

#### **Lubbock Downtown Center (B001):**

Mondays and Wednesdays 5:00 pm - 5:30 pm

Mondays and Wednesdays 7:40 pm - 8:10 pm

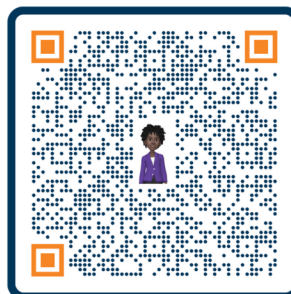
#### **Online (Virtual) (Link on Blackboard):**

Tuesdays 9:00 am - 10:00 am

Wednesdays 10:00 am - 11:00 am

Thursdays 2:00 pm - 3:00 pm

Fridays 1:00 pm - 2:00 pm



or **by appointment**

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

[Schedule Appointment](#)

## CONTENTS

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- 2** What are we required to do in this class?
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**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:

- 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

*Writing Utensil*



*8.5 inch x 11 inch paper*



*Non-Programmable  
Scientific Calculator  
(No Graphing)*



*Good Internet Connection*



*Web Camera*



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## 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 or the Class OneNote Notebook and graded on completion. There will be fifteen (15) notes, with five (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 fourteen (14) quizzes, with four (4) quizzes being extra credit. Any missed Memory Quiz will not be allowed to be taken after the due date.

### Mastery Assessments (Worth 0.50 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 fifteen (15) assessments, with five (5) assessments being extra credit. Any missed Mastery Assessment will not be allowed to be taken after the due date.

### Learning Reflections (Worth 0.50 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 fifteen (15) assignments, with five (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 five (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.

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

## 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

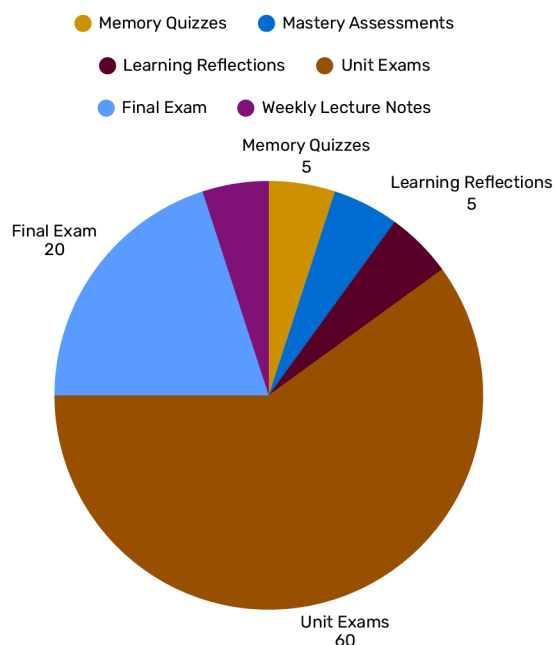
79.5 - 89.49 earn a B

69.5 - 79.49 earn a C

59.5 - 69.49 earn a D

59.49 and below earn an F

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





# 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 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

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

## BLACKBOARD MESSAGES & EMAIL

### Communications 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

# 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.

## NETIQUETTE: INTERNET ETIQUETTE

- Tip: 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 forgiving and forget others mistakes. If you're offended by something another student says online, keep in mind that you may have misunderstood their intentions. Give them the benefit of the doubt.
- Respect the time and bandwidth of others. Did you get to the point quickly?

## NETIQUETTE: INTERNET ETIQUETTE CONTINUED

- 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.
- 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

## 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.

- Each example, even the ones not worked out in the lecture videos, has a video in the example videos folder. Please keep in mind that the videos are in a playlist, and you will need to choose the required video from the list provided by the menu icon on the upper right.
- Keys (worked-out solutions) are provided for every practice problem and every assessment (after the due date) in the Keys folder.
- Under Additional Resources, there are virtual flashcards for the memory quiz information, 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 at

<https://www.southplainscollege.edu/exploreprograms/artsandsciences/teacheredtutoring.php> 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: <https://www.southplainscollege.edu/syllabusstatements/> or this QR Code.



South Plains College policies, return to campus plan, and protocols regarding COVID-19 can be found here:

<https://www.southplainscollege.edu/emergency/covid19-faq.php>.



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 Health and Wellness Center site is found at <https://www.southplainscollege.edu/health/studenthealth.php> 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.



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# 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.



### Fall 2025 MATH-1316 Tentative Calendar

Week	Day	Date	Topic	Learning Reflection Due	Memory Quiz Due	Lecture Notes Due	Mastery Assessment Due	Exam Due
0	Thu	21 Aug	<ul style="list-style-type: none"><li>Class Introduction</li><li>Algebra Review</li></ul>	Not due this week	Not due this week	Not due this week	Not due this week	<b>Preparatory Assignments</b>
	Fri	22 Aug						Sun, 31 Aug by 23:30 (11:30 pm) <b>Use Honorlock</b>
1	Mon	25 Aug	<ul style="list-style-type: none"><li>Angles</li><li>Non-Acute Angles</li></ul>	Not due this week	Not due this week	Sat, 30 Aug by 23:30 (11:30 pm)	Sun, 31 Aug by 23:30 (11:30 pm) <b>Use Honorlock</b>	Sun, 21 Sep by 23:30 (11:30 pm) <b>Use Honorlock</b>
	Tue	26 Aug						
	Wed	27 Aug						
	Thu	28 Aug						
	Fri	29 Aug						
2	Mon	1 Sep	<ul style="list-style-type: none"><li>Trigonometric Functions</li></ul>	No School – Labor Day				
	Tue	2 Sep		Thu, 4 Sep by 23:30 (11:30 pm)	Radian & Degree Measures  Sat, 6 Sep by 23:30 (11:30 pm) <b>Use Honorlock</b>	Sat, 6 Sep by 23:30 (11:30 pm)	Sun, 7 Sep by 23:30 (11:30 pm) <b>Use Honorlock</b>	Sun, 21 Sep by 23:30 (11:30 pm) <b>Use Honorlock</b>
	Wed	3 Sep						
	Thu	4 Sep						
	Fri	5 Sep						
3	Mon	8 Sep	<ul style="list-style-type: none"><li>Non-Standard Position Angles</li><li>Review for Unit 1 Exam</li></ul>	Thu, 11 Sep by 23:30 (11:30 pm)	Standard Position Trig Functions  Sat, 13 Sep by 23:30 (11:30 pm) <b>Use Honorlock</b>	Sat, 13 Sep by 23:30 (11:30 pm)	Sun, 14 Sep by 23:30 (11:30 pm) <b>Use Honorlock</b>	Sun, 21 Sep by 23:30 (11:30 pm) <b>Use Honorlock</b>
	Tue	9 Sep						
	Wed	10 Sep						
	Thu	11 Sep						
	Fri	12 Sep						
4	Mon	15 Sep	<ul style="list-style-type: none"><li>Using a Calculator</li><li>Solving Right Triangles</li></ul>	Thu, 18 Sep by 23:30 (11:30 pm)	Function Values of Degree Angles  Sat, 20 Sep by 23:30 (11:30 pm) <b>Use Honorlock</b>	Sat, 20 Sep by 23:30 (11:30 pm)	Sun, 21 Sep by 23:30 (11:30 pm) <b>Use Honorlock</b>	Sun, 12 Oct by 23:30 (11:30 pm) <b>Use Honorlock</b>
	Tue	16 Sep						
	Wed	17 Sep						
	Thu	18 Sep						
	Fri	19 Sep						

Week	Day	Date	Topic	Learning Reflection Due	Memory Quiz Due	Lecture Notes Due	Mastery Assessment Due	Exam Due
5	Mon	22 Sep	<ul style="list-style-type: none"> <li>Law of Sines</li> <li>Law of Cosines</li> </ul>	Thu, 25 Sep by 23:30 (11:30 pm)	<b>Function Values of Radian Angles</b>  Sat, 27 Sep by 23:30 (11:30 pm) <b>Use Honorlock</b>	Sat, 27 Sep by 23:30 (11:30 pm)	Sun, 28 Sep by 23:30 (11:30 pm) <b>Use Honorlock</b>	Sun, 12 Oct by 23:30 (11:30 pm) <b>Use Honorlock</b>
	Tue	23 Sep						
	Wed	24 Sep						
	Thu	25 Sep						
	Fri	26 Sep						
6	Mon	29 Sep	<ul style="list-style-type: none"> <li>Triangle Applications</li> <li>Radian Applications</li> <li><i>Review for Unit 2 Exam</i></li> </ul>	Thu, 2 Oct by 23:30 (11:30 pm)	<b>Function Values of Radian Angles</b>  Sat, 4 Oct by 23:30 (11:30 pm) <b>Use Honorlock</b>	Sat, 4 Oct by 23:30 (11:30 pm)	Sun, 5 Oct by 23:30 (11:30 pm) <b>Use Honorlock</b>	Sun, 12 Oct by 23:30 (11:30 pm) <b>Use Honorlock</b>
	Tue	30 Sep						
	Wed	1 Oct						
	Thu	2 Oct						
	Fri	3 Oct						
7	Mon	6 Oct	<ul style="list-style-type: none"> <li>Characteristics of Trigonometric Functions</li> <li>Sine and Cosine Graphs</li> </ul>	Thu, 9 Oct by 23:30 (11:30 pm)	<b>Function Values of Radian Angles</b>  Sat, 11 Oct by 23:30 (11:30 pm) <b>Use Honorlock</b>	Sat, 11 Oct by 23:30 (11:30 pm)	Sun, 12 Oct by 23:30 (11:30 pm) <b>Use Honorlock</b>	Sun, 26 Oct by 23:30 (11:30 pm) <b>Use Honorlock</b>
	Tue	7 Oct						
	Wed	8 Oct						
	Thu	9 Oct						
	Fri	10 Oct						
8	Mon	13 Oct	<ul style="list-style-type: none"> <li>Secant and Cosecant Graphs</li> <li>Tangent and Cotangent Graphs</li> <li><i>Review for Unit 3 Exam</i></li> </ul>	Thu, 16 Oct by 23:30 (11:30 pm)	<b>Function Values of Degree and Radian Angles</b>  Sat, 18 Oct by 23:30 (11:30 pm) <b>Use Honorlock</b>	Sat, 18 Oct by 23:30 (11:30 pm)	Sun, 19 Oct by 23:30 (11:30 pm) <b>Use Honorlock</b>	Sun, 26 Oct by 23:30 (11:30 pm) <b>Use Honorlock</b>
	Tue	14 Oct						
	Wed	15 Oct						
	Thu	16 Oct						
	Fri	17 Oct						

Week	Day	Date	Topic	Learning Reflection Due	Memory Quiz Due	Lecture Notes Due	Mastery Assessment Due	Exam Due
9	Mon	20 Oct	<ul style="list-style-type: none"> <li>Fundamental Identities</li> <li>Simplifying Trigonometric Identities</li> </ul>	Thu, 23 Oct by 23:30 (11:30 pm)	Sat, 25 Oct by 23:30 (11:30 pm) <b>Use Honorlock</b>	Sat, 25 Oct by 23:30 (11:30 pm)	Sun, 26 Oct by 23:30 (11:30 pm) <b>Use Honorlock</b>	Sun, 16 Nov by 23:30 (11:30 pm) <b>Use Honorlock</b>
	Tue	21 Oct						
	Wed	22 Oct						
	Thu	23 Oct						
	Fri	24 Oct						
10	Mon	27 Oct	<ul style="list-style-type: none"> <li>Verifying Trigonometric Identities</li> </ul>	Thu, 30 Oct by 23:30 (11:30 pm)	Sat, 1 Nov by 23:30 (11:30 pm) <b>Use Honorlock</b>	Sat, 1 Nov by 23:30 (11:30 pm)	Sun, 2 Nov by 23:30 (11:30 pm) <b>Use Honorlock</b>	Sun, 16 Nov by 23:30 (11:30 pm) <b>Use Honorlock</b>
	Tue	28 Oct						
	Wed	29 Oct						
	Thu	30 Oct						
	Fri	31 Oct						
11	Mon	3 Nov	<ul style="list-style-type: none"> <li>Inverse Trigonometric Functions</li> <li>Solving Trigonometric Equations with Single Angles</li> <li>Review for Unit 4 Exam</li> </ul>	Thu, 6 Nov by 23:30 (11:30 pm)	Sat, 8 Nov by 23:30 (11:30 pm) <b>Use Honorlock</b>	Sat, 8 Nov by 23:30 (11:30 pm)	Sun, 9 Nov by 23:30 (11:30 pm) <b>Use Honorlock</b>	Sun, 16 Nov by 23:30 (11:30 pm) <b>Use Honorlock</b>
	Tue	4 Nov						
	Wed	5 Nov						
	Thu	6 Nov						
	Fri	7 Nov						
12	Mon	10 Nov	<ul style="list-style-type: none"> <li>Sum and Difference Identities</li> <li>Double-Angle Identities</li> </ul>	Thu, 13 Nov by 23:30 (11:30 pm)	Sat, 15 Nov by 23:30 (11:30 pm) <b>Use Honorlock</b>	Sat, 15 Nov by 23:30 (11:30 pm)	Sun, 16 Nov by 23:30 (11:30 pm) <b>Use Honorlock</b>	Sun, 30 Nov by 23:30 (11:30 pm) <b>Use Honorlock</b>
	Tue	11 Nov						
	Wed	12 Nov						
	Thu	13 Nov						
	Fri	14 Nov						

Week	Day	Date	Topic	Learning Reflection Due	Memory Quiz Due	Lecture Notes Due	Mastery Assessment Due	Exam Due
13	Mon	17 Nov	<ul style="list-style-type: none"><li>Half-Angle and Power-Reducing Identities</li><li>Sum-to-Product and Product-to-Sum Identities</li><li>Solving Trigonometric Equations with Multiple Angles</li><li>Review for Unit 5 Exam</li></ul>	Thu, 20 Nov by 23:30 (11:30 pm)	Multiple Angle Identities  Sat, 22 Nov by 23:30 (11:30 pm) Use Honorlock	Sat, 22 Nov by 23:30 (11:30 pm)	Sun, 23 Nov by 23:30 (11:30 pm) Use Honorlock	Sun, 30 Nov by 23:30 (11:30 pm) Use Honorlock
	Tue	18 Nov						
	Wed	19 Nov						
	Thu	20 Nov						
	Fri	21 Nov						
14	Mon	24 Nov	<ul style="list-style-type: none"><li>Vectors and Dot Product</li><li>Vector Applications</li></ul>	Thu, 27 Nov by 23:30 (11:30 pm)	Multiple Angle Identities  Sat, 29 Nov by 23:30 (11:30 pm) Use Honorlock	Sat, 29 Nov by 23:30 (11:30 pm)	Sun, 30 Nov by 23:30 (11:30 pm) Use Honorlock	Wed, 10 Dec by 23:30 (11:30 pm) Use Honorlock
	Tue	25 Nov						
	Wed	26 Nov		No School – Thanksgiving Break				
	Thu	27 Nov						
	Fri	28 Nov						
	15	Mon	1 Dec	<ul style="list-style-type: none"><li>Polar Plane</li><li>Complex Plane and Forms of Complex Numbers</li></ul>	Thu, 4 Dec by 23:30 (11:30 pm)	Multiple Angle Identities  Sat, 6 Dec by 23:30 (11:30 pm)	Sat, 6 Dec by 23:30 (11:30 pm)	
Tue		2 Dec						
Wed		3 Dec	Last Day to Drop a Class					
Thu		4 Dec			Use Honorlock		Use Honorlock	
Fri		5 Dec						
16	Mon	8 Dec	Review for Final Exam	Wed, 10 Dec by 23:30 (11:30 pm)	Not due this week	Not due this week	Not due this week	Wed, 10 Dec by 23:30 (11:30 pm) Use Honorlock
	Tue	9 Dec						
	Wed	10 Dec	Final Exam Due by 23:30 (11:30 pm) Use Honorlock					
	Thu	11 Dec	Semester Over					
	Fri	12 Dec	Graduation					