

MATH 1316 – PLANE TRIGONOMETRY

South Plains College

Professor: Dr.Ramesh Krishnan (alias: Krams)

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Office Hours: M: 2:30 – 5:00, TR: 9:50 – 10:40, T: 12:30 – 1:00, F: 8:00 – 10:30

Textbook: Trigonometry, 4th ed., Dugopolski + MyLab

ATTENDANCE: Attendance and effort are highly important for success in this course. Any student having more than 3 absences in the class or miss any 3 component submission of the course stands a chance of automatically being dropped from this course with a grade of F. The only exception will be a medical emergency for which proper documentation, as deemed appropriate by the professor, will be needed.

GRADING: Grades in the course will be based on the following components:

• 3 exams	(60%)	$A \geq 90$
• Quiz	(10%)	$80 \leq B < 90$
• Homework	(10%)	$70 \leq C < 80$
• Final exam	(20%)	$60 \leq D < 70$
		$F < 60$
TOTAL	100%	

PS: NO MAKE-UP exams will be given. If you miss **one**, the final exam will count twice. **NO MAKE-UP Quizzes!**

EQUAL OPPORTUNITY: South Plains College strives to accommodate the individual needs of all students in order to enhance their opportunities for success in the context of a comprehensive community college setting. It is the policy of South Plains College to offer all educational and employment opportunities without regard to race, color, national origin, religion, gender, disability or age.

DISABILITY: Students with disabilities, including but not limited to physical, psychiatric or learning disabilities, who wish to request accommodations in this class should notify the Special Services Office early in the semester so that the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability to the Special Services Coordinator. For more information, call or visit the Special Services Office in the Student Services Building, 894-9611 ext. 2529, 2530.

DROPPING A COURSE: If you decide to drop the course, return a completed official drop form to the registrar's office by the dates given in the schedule of classes.

HOMEWORK: All homework will be done and submitted through MyLab. There will be no make up for the homework assignments if you miss the due dates on MyLab. Sufficient time will be provided to finish your homework assignments. Please do not wait until the last minute to finish your assignments as the software MyLab is live online and there is a very good chance the website could be down on the last day or you could be having a problem connecting on your end. Either way no opportunity will be provided to make up the assignment. You are expected to finish your assignments well in advance. Also the cutoff time shown on the website is Eastern Time 11:59pm!
The Course ID to be used on www.coursecompass.com is: **krishnan02771**

COURSE OBJECTIVES: Upon completion of this course, the student will be able to:

1. Find the distance between two points
2. Describe the trigonometric functions and their uses
3. Use the relationship between trig functions to describe angles
4. Use calculators to find the trig functions of any angle
5. Find related angles
6. Solve right triangles
7. Use the laws of sine and cosine
8. Find the area of any triangle
9. Convert degrees into radians and vice-versa
10. Find the length of a circular arc
11. Use the concepts of linear and angular velocity to solve word problems
12. Use trig identities to solve algebraic equations
13. Solve trigonometric equations
14. Graph trig functions and use the graphs to determine relationships
15. Describe the inverse trigonometric functions and use them

The following sections from the textbook will be covered:

Chap 1: 1.1, 1.2, 1.3, 1.4, 1.5, & 1.6

EXAM 1

Chap 2: 2.1, 2.2, 2.3, & 2.4

Chap 3: 3.1, 3.2, 3.3, 3.4, & 3.5

EXAM 2

Chap 4: 4.1, 4.2, 4.3, & 4.4

Chap 5: 5.1, 5.2

EXAM 3

Chap 5: 5.3, 5.4, & 5.5

FINAL EXAM will be comprehensive covering the entire course.