

West Los Angeles College

SLO Addendum

Course Name and Number MATH 241

Course Title Trigonometry with Vectors

Course Objectives (as stated in the Course Outline of Record)

By the end of the course, the student should be able to explain concepts, solve problems, and compare and contrast the following topics:

1. The six trigonometric functions
2. Angles, degrees, radians, and angle measurement
3. Right triangle trigonometry
4. Calculators and the values of the trigonometric functions of acute angles
5. Circular functions
6. Arc length and area of sector
7. Graphing and inverse functions
8. Basic graphs
9. Amplitude, period, and phase shift
10. Proving trigonometric identities
11. Solving trigonometric equations
12. The laws of sines and cosines
13. Vectors, an algebraic approach
14. Complex numbers, and trigonometric forms
15. Polar coordinates, and equations in polar coordinates.

Math Division Program SLOs (as stated in the Course Outline of Record)

Program SLOs:

- Apply quantitative thinking processes using basic mathematical operations (addition, subtraction, multiplication, division) to solve common academic, workplace, and family problems. (Theme: mathematical operations)
- Use mathematical tools essential for analyzing quantitative problems and for producing solutions. (Theme: mathematical tools)
- Select appropriate math strategies for solving and handling real life problems involving finance, economics, and family issues. (Theme: mathematical problem-solving)

<p align="center"><u>Course SLO</u></p> <p>One sentence that describes a major piece of knowledge, skill, or ability that students can demonstrate by the end of the course</p> <p><i>Finish the sentence, "At end of the course, the successful student will be able to... "</i></p>	<p align="center"><u>Assessment Method</u></p> <p>Major assignment, project or test used to demonstrate or apply outcome</p> <p><i>Remember to have a mix of qualitative and quantitative assessment methods.</i></p>	<p align="center"><u>Criterion Level</u></p> <p>Reflects satisfactory performance on the SLO</p> <ul style="list-style-type: none"> • <i>At least X percent of students achieve this course SLO.</i> • <i>All students achieve at least the Y level on this SLO.</i> • <i>At least X percent of students achieve the Y level on this course SLO.</i>
<p>1. Use the trig ratios and the laws of sines and cosines to solve applied problems involving triangles.</p>	<p>Students will answer questions embedded on a final exam or other in-class exercise.</p>	<p>At least 60% of students will achieve at least the 70% level on this SLO.</p>
<p>2. Graph sinusoidal functions of real numbers and use them to model periodic processes.</p>	<p>Students will answer questions embedded on a final exam or other in-class exercise.</p>	<p>At least 50 % of students will achieve at least the 65% level on this SLO.</p>

Mapping to Program SLO and Institutional SLOs

Please indicate with an "X" in the appropriate boxes below, the Course SLO mapping to the corresponding Program and Institutional SLO(s).

Course SLO	Program SLO												Institutional SLO								
	1	2	3	4	5	6	7	8	9	10	11	12	A	B	C	D	E	F	G	H	I
#1		x	X	X									x		x			x		x	
#2		x	X	X									x	x	x			x		x	
#3																					
#4																					

Course SLO Acknowledgements

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