

West Los Angeles College SLO Addendum

Course Name and Number MATH 245

Course Title COLLEGE ALGEBRA

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

1. graph linear functions and understand their properties
2. analyze polynomial functions and solve polynomial equations
3. perform algebraic manipulations involving radicals, exponents, rational expressions, and logarithms
4. analyze and graph conic sections
5. use matrices to solve a system of linear equations
6. evaluate determinants and understand their properties
7. compute and use permutations and combinations
8. compute basic probabilities
9. calculate with arithmetic and geometric sequences and series
10. understand and use the Binomial Theorem
11. apply Mathematical Induction

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

Program SLOs:

1. Apply quantitative thinking processes using basic mathematical operations (addition, subtraction, multiplication, division) to solve common academic, workplace, and family problems. (Theme: mathematical operations)
3. Use mathematical tools essential for analyzing quantitative problems and for producing solutions. (Theme: mathematical tools)
5. 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. Choose an appropriate basic model (e.g. linear, quadratic, exponential, power, etc.) for an applied situation, find the equation(s) for that model, and solve equations to answer questions about the original situation.</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 70% 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			x		x	
#2																					
#3																					
#4																					

Course SLO Acknowledgements

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 Date