

West Los Angeles College

SLO Addendum

Course Name and Number MATH 260

Course Title PRE-CALCULUS

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

1. Complex numbers.
2. Quadratic functions and their applications.
3. Functions and their graphs, operation on functions.
4. Polynomials and their zeros.
5. Rational functions.
6. Exponential and logarithmic functions: properties, graphs, equations.
7. Trigonometric functions: properties , graphs.
8. Analytic trigonometry: identities, equations, the addition, subtraction, and multiple angle formulae.
9. Applications of trigonometry: dot product, trigonometric form of a complex number.
10. De Moivre's theorem and the nth roots of a complex number.
11. Matrices: algebra, inverse, determinant.
12. Sum of arithmetic and geometric sequences.
13. Mathematical induction.
14. Binomial theorem.
15. Conic sections.
16. Plane curves and parametric equations.
17. Polar coordinates.
18. Conic sections 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. Choose an appropriate basic function (e.g. linear, piecewise, exponential, trigonometric, power, etc.) to model an applied situation and formulate conclusions about the original situation.</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. Recognize and evaluate functions, including inverse, polynomial and rational functions, and demonstrate knowledge of transformations and compositions of functions.</p>	<p>Students will answer questions embedded on a final exam or other in-class exercise.</p>	<p>At least 70 % 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		x	
#2		x	X	X									x	x	x			x		x	
#3																					
#4																					

Course SLO Acknowledgements

Draft prepared by Bonnie Blustein

 Division Chair
 Matt Robertson

 Date

 SLO Coordinator
 Todd Matosic

 Date

 Dean
 Judith-Ann Friedman

 Date

 Curriculum Committee Chair
 Judy Chow

 Date

 Academic Senate President
 Adrienne Foster

 Date

 VP of Academic Affairs (initial) and College President

 Date