

West Los Angeles College

SLO Addendum

Course Name and Number MATH 105

Course Title ARITHMETIC

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

1. Read and write whole numbers in words and in expanded form
2. Use rounding and estimation in applications of arithmetic
3. Add, subtract, multiply, and divide whole numbers
4. Use estimation to assess reasonableness of calculations
5. Correctly use Order of Operations
6. Factor whole numbers completely, and find the greatest common factor of a set of numbers
7. Use whole-number operations in applied contexts
8. Write and interpret fractions, and represent common fractions in multiple ways
9. Add, subtract, multiply, and divide common fractions and mixed numbers
10. Solve applications problems involving common fractions
11. Read, write, round off, and compare decimal fractions
12. Add, subtract, multiply, and divide decimals
13. Convert among common fractions, decimals, and percents
14. Write, interpret, simplify, and convert ratios and rates
15. Use proportions to solve problems
16. Solve problems that involve percents

Math Program SLOs

1. Apply quantitative thinking processes using basic mathematical operations (addition, subtraction, multiplication, division) to solve common academic, workplace, and family problems. (Theme: Quantitative thinking; mathematical operations)
2. Analyze and interpret spatial and graphic data (schedules, maps, tables, graphs, and geometric figures). (Theme: spatial and graphic data).
3. Use mathematical tools essential for analyzing quantitative problems and for producing solutions. (Theme: mathematical tools)
4. Apply advanced mathematical concepts and tools (algebra, calculus) essential in upper division academic work and/or workplace tasks. (Theme: advanced mathematical operations—algebra, calculus)
5. Select appropriate math strategies for solving and handling application problems involving (for example) finance, science, 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 rounding and estimation in applications of arithmetic.</p>	<p>Students will answer multiple-choice questions in a common assessment instrument. final exam. A scantron scanner will be used to access the results for each of the relevant questions.</p>	<p>Each question will be answered correctly by 60 % of students.</p>
<p>2. Add, subtract, multiply, and divide fractions and mixed numbers and decimal numbers.</p>	<p>Students will answer multiple-choice questions embedded in a common assessment instrument. exam. A scantron scanner will be used to access the results for each of the relevant questions.</p>	<p>Each question will be answered correctly by 50 % of students.</p>
<p>3.</p>		
<p>4.</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							
#2	x														x							
#3																						
#4																						

Course SLO Acknowledgements

Draft prepared by Bonnie Blustein with input from Henri Feiner

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