

West Los Angeles College

SLO Addendum

Course Name and Number MATH 110

Course Title INTRODUCTION TO ALGEBRAIC CONCEPTS

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

1. Arithmetic operations with common fractions, mixed numbers, and decimals, and their applications
2. Percents, ratios, rates, proportions and their applications
3. Operations and applications with signed numbers
4. Number sense and basic quantitative reasoning skills
5. Uses of variables in Algebra as unknowns, in modeling, and in formulas
6. Equations and inequalities
7. Definitions and applications of basic algebraic properties
8. Graphical representations
9. Geometrical concepts
10. Study Skills

This course MAY also include:

11. Operations with polynomials
12. Solid geometry
13. Graphing linear equations

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. Calculate fluently (by hand) with signed whole and decimal numbers and fractions</p>	<p>Students will answer multiple-choice questions embedded in a common assessment tool. 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 at least 50 % of students.</p>
<p>2. Model and solve problems using variables and simple linear equations and inequalities</p>	<p>Students will answer multiple-choice questions embedded in a common assessment tool. A scantron scanner will be used to access the results for each of the relevant questions.</p> <p>Students will answer a set of constructed-response questions that may be embedded in an in-class exam or administered separately as an in- class activity</p>	<p>Each question in the common assessment will be answered correctly by at least 40 % of students.</p> <p>At least 25% of students will achieve a level of at least 80% on the set of constructed-response questions. At least 50% of the students will achieve a level of at least 60% on the set of constructed- response questions .</p>
<p>3. Solve problems involving proportional reasoning (including percents)</p>	<p>Students will answer multiple-choice questions embedded in a common assessment tool. A scantron scanner will be used to access the results for each of the relevant questions.</p> <p>Students will answer a set of constructed-response questions that may be embedded in an in-class exam or administered separately as an in- class activity</p>	<p>Each question will be answered correctly by at least 40 % of students.</p> <p>At least 25% of students will achieve a level of at least 75% on the set of constructed-response questions. At least 50% of the students will achieve a level of at least 50% on the set of constructed- response questions .</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							
#2	X		X		X								X	X	X							
#3	X		X		X								X	X	X							
#4																						

Course SLO Acknowledgements

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