# COURSE SLO ASSESSMENT 4-YEAR TIMELINE

| Unit Name | Course SLO Assessment Cycle | Course ID | Course Name | Course SLO Title | Course SLO Statement |
|---|---|---|---|---|---|
| El Camino: Course SLOs (MATH) - Math (Prospective Elementary School Teachers) | 2013-14 (Fall 2013) | ECC: MATH 110 | Structures and Concepts in Mathematics | SLO #1 Perform and Interpret Basic Operations | Students will be able to demonstrate/perform the four basic operations with real numbers and interpret the results. |
| | 2013-14 (Fall 2013) | ECC: MATH 110 | Structures and Concepts in Mathematics | SLO #2 Explain Mathematical Concepts | Students will be able to explain the underlying mathematical concepts of the binary operations using written and oral means. |
| | 2013-14 (Fall 2013) | ECC: MATH 110 | Structures and Concepts in Mathematics | SLO #3 Solve Application Problems | Students will be able to solve an application problem and design an application when parameters are given. |
| | 2013-14 (Spring 2014) | ECC: MATH 115 | Probability and Statistics for Prospective Elementary School Teachers | SLO #1 Research Study | Students will be able to design a research study, develop an appropriate assessment instrument, collect and analyze data using appropriate methods, and draw statistical inferences from the data in written form. |
| | 2013-14 (Spring 2014) | ECC: MATH 115 | Probability and Statistics for Prospective Elementary School Teachers | SLO #2 Analyze Statistical Procedure | Given a particular set of data, students will be able to determine the appropriate statistical procedures to analyze and display the data, complete the statistical methods, and explain the mathematical concepts in written and oral forms. |
| | 2013-14 (Spring 2014) | ECC: MATH 115 | Probability and Statistics for Prospective Elementary School Teachers | SLO #3 Explain Statistics and Probability Concepts | Given a particular set of data, students will be able to explain statistics and probability concepts and use appropriate methodologies for elementary or middle school teachers. |
| | 2013-14 (Spring 2014) | ECC: MATH 115 | Probability and Statistics for Prospective Elementary School Teachers | SLO #4 Solve and Interpret Experimental and Mathematical Probability | Students will be able to solve, explain, and interpret informal, experimental, and mathematical probability concepts and application problems both in written and oral forms. |
| | 2013-14 (Spring 2014) | ECC: MATH 116 | Geometry and Measurement for Prospective Elementary School Teachers | SLO #1 Identify Geometric Shapes | Students will identify two- and three-dimensional geometric shapes, explain their attributes and discuss the relationships among the geometric shapes. |
| | 2013-14 (Spring 2014) | ECC: MATH 116 | Geometry and Measurement for Prospective Elementary School Teachers | SLO #2 Use Geometric Tools | Students will use geometric tools (compass, protractor, straightedge, and dynamic geometry software) to construct geometric figures. |
| | 2013-14 (Spring 2014) | ECC: MATH 116 | Geometry and Measurement for Prospective Elementary School Teachers | SLO #3 Solve and Interpret Geometric Application Problems | Students will use the concepts of measurement to solve geometric application problems, determine the appropriateness of a solution, and if errors are made, explain the misconceptions or errors made and how to solve the problem correctly using written or oral means. |
| | 2013-14 (Spring 2014) | ECC: MATH 116 | Geometry and Measurement for Prospective Elementary School Teachers | SLO #4 Explain Geometric Formulas | Students will use words and diagrams to explain the derivation of geometric formulas. |
| | 2014-15 (Fall 2014) | ECC: MATH 110 | Structures and Concepts in | SLO #1 Perform and | Students will be able to demonstrate/perform the four basic |

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| | 2014-15 (Fall 2014) | ECC: MATH 110 | Mathematics | Interpret Basic Operations | operations with real numbers and interpret the results. |
| | 2014-15 (Fall 2014) | ECC: MATH 110 | Structures and Concepts in Mathematics | SLO #2 Explain Mathematical Concepts | Students will be able to explain the underlying mathematical concepts of the binary operations using written and oral means. |
| | 2014-15 (Fall 2014) | ECC: MATH 110 | Structures and Concepts in Mathematics | SLO #3 Solve Application Problems | Students will be able to solve an application problem and design an application when parameters are given. |
| | 2014-15 (Spring 2015) | ECC: MATH 115 | Probability and Statistics for Prospective Elementary School Teachers | SLO #1 Research Study | Students will be able to design a research study, develop an appropriate assessment instrument, collect and analyze data using appropriate methods, and draw statistical inferences from the data in written form. |
| | 2014-15 (Spring 2015) | ECC: MATH 115 | Probability and Statistics for Prospective Elementary School Teachers | SLO #2 Analyze Statistical Procedure | Given a particular set of data, students will be able to determine the appropriate statistical procedures to analyze and display the data, complete the statistical methods, and explain the mathematical concepts in written and oral forms. |
| | 2014-15 (Spring 2015) | ECC: MATH 115 | Probability and Statistics for Prospective Elementary School Teachers | SLO #3 Explain Statistics and Probability Concepts | Given a particular set of data, students will be able to explain statistics and probability concepts and use appropriate methodologies for elementary or middle school teachers. |
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| | 2014-15 (Spring 2015) | ECC: MATH 116 | Geometry and Measurement for Prospective Elementary School Teachers | SLO #4 Explain Geometric Formulas | Students will use words and diagrams to explain the derivation of geometric formulas. |
| | 2015-16 (Fall 2015) | ECC: MATH 110 | Structures and Concepts in Mathematics | SLO #1 Perform and Interpret Basic Operations | Students will be able to demonstrate/perform the four basic operations with real numbers and interpret the results. |
| | 2015-16 (Fall 2015) | ECC: MATH 110 | Structures and Concepts in Mathematics | SLO #2 Explain Mathematical Concepts | Students will be able to explain the underlying mathematical concepts of the binary operations using written and oral means. |
| | 2015-16 (Fall 2015) | ECC: MATH 110 | Structures and Concepts in Mathematics | SLO #3 Solve Application Problems | Students will be able to solve an application problem and design an application when parameters are given. |
| | 2015-16 (Spring 2016) | ECC: MATH 115 | Probability and Statistics | SLO #1 Research Study | Students will be able to design a research study, develop an |

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| | 2015-16 (Spring 2016) | ECC: MATH 115 | for Prospective Elementary School Teachers | SLO #1 Research Study | appropriate assessment instrument, collect and analyze data using appropriate methods, and draw statistical inferences from the data in written form. |
| | 2015-16 (Spring 2016) | ECC: MATH 115 | Probability and Statistics for Prospective Elementary School Teachers | SLO #2 Analyze Statistical Procedure | Given a particular set of data, students will be able to determine the appropriate statistical procedures to analyze and display the data, complete the statistical methods, and explain the mathematical concepts in written and oral forms. |
| | 2015-16 (Spring 2016) | ECC: MATH 115 | Probability and Statistics for Prospective Elementary School Teachers | SLO #3 Explain Statistics and Probability Concepts | Given a particular set of data, students will be able to explain statistics and probability concepts and use appropriate methodologies for elementary or middle school teachers. |
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| | 2015-16 (Spring 2016) | ECC: MATH 116 | Geometry and Measurement for Prospective Elementary School Teachers | SLO #2 Use Geometric Tools | Students will use geometric tools (compass, protractor, straightedge, and dynamic geometry software) to construct geometric figures. |
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| | 2015-16 (Spring 2016) | ECC: MATH 116 | Geometry and Measurement for Prospective Elementary School Teachers | SLO #4 Explain Geometric Formulas | Students will use words and diagrams to explain the derivation of geometric formulas. |
| | 2016-17 (Fall 2016) | ECC: MATH 110 | Structures and Concepts in Mathematics | SLO #1 Perform and Interpret Basic Operations | Students will be able to demonstrate/perform the four basic operations with real numbers and interpret the results. |
| | 2016-17 (Fall 2016) | ECC: MATH 110 | Structures and Concepts in Mathematics | SLO #2 Explain Mathematical Concepts | Students will be able to explain the underlying mathematical concepts of the binary operations using written and oral means. |
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| | 2016-17 (Spring 2017) | ECC: MATH 115 | Probability and Statistics for Prospective Elementary School Teachers | SLO #1 Research Study | Students will be able to design a research study, develop an appropriate assessment instrument, collect and analyze data using appropriate methods, and draw statistical inferences from the data in written form. |
| | 2016-17 (Spring 2017) | ECC: MATH 115 | Probability and Statistics for Prospective Elementary School Teachers | SLO #2 Analyze Statistical Procedure | Given a particular set of data, students will be able to determine the appropriate statistical procedures to analyze and display the data, complete the statistical methods, and explain the mathematical |

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| | 2016-17 (Spring 2017) | ECC: MATH 115 | Probability and Statistics for Prospective Elementary School Teachers | SLO #2 Analyze Statistical Procedure | concepts in written and oral forms. |
| | 2016-17 (Spring 2017) | ECC: MATH 115 | Probability and Statistics for Prospective Elementary School Teachers | SLO #3 Explain Statistics and Probability Concepts | Given a particular set of data, students will be able to explain statistics and probability concepts and use appropriate methodologies for elementary or middle school teachers. |
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| | 2016-17 (Spring 2017) | ECC: MATH 116 | Geometry and Measurement for Prospective Elementary School Teachers | SLO #4 Explain Geometric Formulas | Students will use words and diagrams to explain the derivation of geometric formulas. |
| | 2017-18 (Fall 2017) | ECC: MATH 110 | Structures and Concepts in Mathematics | SLO #1 Perform and Interpret Basic Operations | Students will be able to demonstrate/perform the four basic operations with real numbers and interpret the results. |
| | 2017-18 (Fall 2017) | ECC: MATH 115 | Probability and Statistics for Prospective Elementary School Teachers | SLO #1 Research Study | Students will be able to design a research study, develop an appropriate assessment instrument, collect and analyze data using appropriate methods, and draw statistical inferences from the data in written form. |
| | 2017-18 (Spring 2018) | ECC: MATH 116 | Geometry and Measurement for Prospective Elementary School Teachers | SLO #1 Identify Geometric Shapes | Students will identify two- and three-dimensional geometric shapes, explain their attributes and discuss the relationships among the geometric shapes. |
| | 2018-19 (Fall 2018) | ECC: MATH 110 | Structures and Concepts in Mathematics | SLO #2 Explain Mathematical Concepts | Students will be able to explain the underlying mathematical concepts of the binary operations using written and oral means. |
| | 2018-19 (Fall 2018) | ECC: MATH 115 | Probability and Statistics for Prospective Elementary School Teachers | SLO #2 Analyze Statistical Procedure | Given a particular set of data, students will be able to determine the appropriate statistical procedures to analyze and display the data, complete the statistical methods, and explain the mathematical concepts in written and oral forms. |
| | 2018-19 (Spring 2019) | ECC: MATH 116 | Geometry and | SLO #2 Use Geometric | Students will use geometric tools (compass, protractor, |

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| | 2018-19 (Spring 2019) | ECC: MATH 116 | Measurement for Prospective Elementary School Teachers | Tools | straightedge, and dynamic geometry software) to construct geometric figures. |
| | 2019-20 (Fall 2019) | ECC: MATH 110 | Structures and Concepts in Mathematics | SLO #3 Solve Application Problems | Students will be able to solve an application problem and design an application when parameters are given. |
| | 2019-20 (Fall 2019) | ECC: MATH 115 | Probability and Statistics for Prospective Elementary School Teachers | SLO #3 Explain Statistics and Probability Concepts | Given a particular set of data, students will be able to explain statistics and probability concepts and use appropriate methodologies for elementary or middle school teachers. |
| | 2019-20 (Spring 2020) | ECC: MATH 116 | Geometry and Measurement for Prospective Elementary School Teachers | SLO #3 Solve and Interpret Geometric Application Problems | Students will use the concepts of measurement to solve geometric application problems, determine the appropriateness of a solution, and if errors are made, explain the misconceptions or errors made and how to solve the problem correctly using written or oral means. |
| | 2020-21 (Fall 2020) | ECC: MATH 110 | Structures and Concepts in Mathematics | SLO #1 Perform and Interpret Basic Operations | Students will be able to demonstrate/perform the four basic operations with real numbers and interpret the results. |
| | 2020-21 (Fall 2020) | ECC: MATH 115 | Probability and Statistics for Prospective Elementary School Teachers | SLO #4 Solve and Interpret Experimental and Mathematical Probability | Students will be able to solve, explain, and interpret informal, experimental, and mathematical probability concepts and application problems both in written and oral forms. |
| | 2020-21 (Spring 2021) | ECC: MATH 116 | Geometry and Measurement for Prospective Elementary School Teachers | SLO #4 Explain Geometric Formulas | Students will use words and diagrams to explain the derivation of geometric formulas. |