

PLO Assessment Cycle	Unit Name (Division/Program)	PLO Title	PLO Statement
2020-21 (Fall 2020)	El Camino: PLOs (MATH) - Developmental Math	PLO #4 Articulating Mathematical Reasoning	A student completing Pre-Collegiate Mathematics will verbally articulate (orally or in writing) the mathematical reasoning they used to solve a problem or analyze a situation.
2020-21 (Fall 2020)	El Camino: PLOs (MATH) - Math (Math and Science Majors)	PLO #3 Graphs	Students will create, interpret and analyze graphs relevant to the course concepts and content.
2019-20 (Spring 2020)	El Camino: PLOs (MATH) - Computer Sciences	PLO #2 Tracing the Execution	Upon completion of their course of study in the Computer Science Department, students, when given a code segment, will be able to trace the execution and give the output.
2019-20 (Spring 2020)	El Camino: PLOs (MATH) - Math (Prospective Elementary School Teachers)	PLO #3 Analyzing Mathematical Problems and their	Students will be able to analyze a solution to a mathematics problem, determine the
2019-20 (Spring 2020)	El Camino: PLOs (MATH) - Pre-Engineering	PLO #1 Academic Success Strategies	Students will analyze the preparation, assess the cognitive skills, and apply academic success strategies required in engineering.
2019-20 (Fall 2019)	El Camino: PLOs (MATH) - Developmental Math	PLO #1 Solving Application Problems	A students completing PreCollegiate Mathematics will recognize the underlying mathematical concepts in a given context (word problems, data, diagrams, etc.) and apply those concepts correctly.
2019-20 (Fall 2019)	El Camino: PLOs (MATH) - Math (Math and Science Majors)	PLO #2 Solving Problems	Students will solve problems, including application problems, relevant to the course concepts and content.
2018-19 (Spring 2019)	El Camino: PLOs (MATH) - Computer Sciences	PLO #1 Using Specifications	Upon completion of their course of study in the Computer Science Department, students, when given a specification for a program or program segment, will be able to design, code, compile, test and document a solution.
2018-19 (Spring 2019)	El Camino: PLOs (MATH) - Math (Prospective Elementary School Teachers)	PLO #2 Explaining Mathematical Concepts	Students will be able to demonstrate and explain mathematical concepts using a variety of methods.
2018-19 (Spring 2019)	El Camino: PLOs (MATH) - Pre-Engineering	PLO #2 Solving Applied Problems in Engineering	Students will apply principles from mathematics, physics, and chemistry to solve applied problems in engineering.
2018-19 (Fall 2018)	El Camino: PLOs (MATH) - Developmental Math	PLO #2 Solving Equations and Manipulating Expressions	A student completing Pre-Collegiate Mathematics will demonstrate the ability to identify and correctly implement techniques to symbolically solve equations and manipulate expressions.
2018-19 (Fall 2018)	El Camino: PLOs (MATH) - Math (Math and Science Majors)	PLO #1 Understanding Concepts	Students will explain and demonstrate mathematical concepts relevant to the course content.
2017-18 (Spring 2018)	El Camino: PLOs (MATH) - Computer Sciences	PLO #4 Explaining Concepts	Upon completion of their course of study in the Computer Science Department, students will be able to explain concepts specific to a particular language.
2017-18 (Spring 2018)	El Camino: PLOs (MATH) - Math (GE and Non-Science Majors)	PLO #2 Analytical and Computational Skills	Students will be able to analyze and solve application problems involving business, the social sciences, and/or biological sciences using analytical and computation skills.
2017-18 (Spring 2018)	El Camino: PLOs (MATH) - Math (Prospective Elementary School Teachers)	PLO #1 Solving Application Problems	Students will be able to determine an appropriate strategy to solve an application problem, complete the solution of the problem, describe the procedures used to solve the problem, and explain the underlying mathematical concepts using written and oral means.
2017-18 (Spring 2018)	El Camino: PLOs (MATH) - Pre-Engineering	PLO #1 Academic Success Strategies	Students will analyze the preparation, assess the cognitive skills, and apply academic success strategies required in engineering.
2017-18 (Fall 2017)	El Camino: PLOs (MATH) - Developmental Math	PLO #3 Visual and Graphical Methods	A student completing Pre-Collegiate Mathematics will use visual and graphical methods to represent and analyze information and to solve problems.
2017-18 (Fall 2017)	El Camino: PLOs (MATH) - Math (Math and Science Majors)	PLO #4 Proofs	Students will analyze and construct proofs relevant to the course concepts and content.
2016-17 (Spring 2017)	El Camino: PLOs (MATH) - Math (GE and Non-Science Majors)	PLO #1 Graphical Methods	Students will be able to analyze and solve application problems involving business, the social
2016-17 (Spring 2017)	El Camino: PLOs (MATH) - Math (Prospective Elementary School Teachers)	PLO #1 Solving Application Problems	Students will be able to determine an appropriate strategy to solve an application problem, complete the solution of the problem, describe the procedures used to solve the problem, and
2016-17 (Spring 2017)	El Camino: PLOs (MATH) - Math (Prospective Elementary School Teachers)	PLO #2 Explaining Mathematical Concepts	Students will be able to demonstrate and explain mathematical concepts using a variety of methods.
2016-17 (Spring 2017)	El Camino: PLOs (MATH) - Math (Prospective Elementary School Teachers)	PLO #3 Analyzing Mathematical Problems and their Solutions	Students will be able to analyze a solution to a mathematics problem, determine the appropriateness of the solution, and if errors are made, explain the misconceptions or errors made
2016-17 (Spring 2017)	El Camino: PLOs (MATH) - Pre-Engineering	PLO #2 Solving Applied Problems in Engineering	Students will apply principles from mathematics, physics, and chemistry to solve applied problems in engineering.

2016-17 (Fall 2016)	El Camino: PLOs (MATH) - Computer Sciences	PLO #3 Identifying and Correcting Errors	Upon completion of their course of study in the Computer Science Department, students, when given a code segment with errors, will be able to identify and correct the problems.
2016-17 (Fall 2016)	El Camino: PLOs (MATH) - Developmental Math	PLO #4 Articulating Mathematical Reasoning	A student completing Pre-Collegiate Mathematics will verbally articulate (orally or in writing) the mathematical reasoning they used to solve a problem or analyze a situation.
2016-17 (Fall 2016)	El Camino: PLOs (MATH) - Math (Math and Science Majors)	PLO #3 Graphs	Students will create, interpret and analyze graphs relevant to the course concepts and content.
2015-16 (Spring 2016)	El Camino: PLOs (MATH) - Math (Prospective Elementary School Teachers)	PLO #1 Solving Application Problems	Students will be able to determine an appropriate strategy to solve an application problem, complete the solution of the problem, describe the procedures used to solve the problem, and
2015-16 (Spring 2016)	El Camino: PLOs (MATH) - Math (Prospective Elementary School Teachers)	PLO #2 Explaining Mathematical Concepts	Students will be able to demonstrate and explain mathematical concepts using a variety of methods.
2015-16 (Spring 2016)	El Camino: PLOs (MATH) - Math (Prospective Elementary School Teachers)	PLO #3 Analyzing Mathematical Problems and their Solutions	Students will be able to analyze a solution to a mathematics problem, determine the appropriateness of the solution, and if errors are made, explain the misconceptions or errors made and how to solve the problem correctly using written and oral means.
2015-16 (Spring 2016)	El Camino: PLOs (MATH) - Pre-Engineering	PLO #1 Academic Success Strategies	Students will analyze the preparation, assess the cognitive skills, and apply academic success strategies required in engineering.
2015-16 (Fall 2015)	El Camino: PLOs (MATH) - Computer Sciences	PLO #2 Tracing the Execution	Upon completion of their course of study in the Computer Science Department, students, when given a code segment, will be able to trace the execution and give the output.
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2014-15 (Spring 2015)	El Camino: PLOs (MATH) - Math (GE and Non-Science Majors)	PLO #2 Analytical and Computational Skills	Students will be able to analyze and solve application problems involving business, the social sciences, and/or biological sciences using analytical and computation skills.
2014-15 (Spring 2015)	El Camino: PLOs (MATH) - Math (Prospective Elementary School Teachers)	PLO #1 Solving Application Problems	Students will be able to determine an appropriate strategy to solve an application problem, complete the solution of the problem, describe the procedures used to solve the problem, and
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2014-15 (Fall 2014)	El Camino: PLOs (MATH) - Computer Sciences	PLO #1 Using Specifications	Upon completion of their course of study in the Computer Science Department, students, when given a specification for a program or program segment, will be able to design, code, compile, test and document a solution.
2014-15 (Fall 2014)	El Camino: PLOs (MATH) - Developmental Math	PLO #2 Solving Equations and Manipulating Expressions	A student completing Pre-Collegiate Mathematics will demonstrate the ability to identify and correctly implement techniques to symbolically solve equations and manipulate expressions.
2014-15 (Fall 2014)	El Camino: PLOs (MATH) - Math (Math and Science Majors)	PLO #1 Understanding Concepts	Students will explain and demonstrate mathematical concepts relevant to the course content.
2013-14 (Spring 2014)	El Camino: PLOs (MATH) - Math (Prospective Elementary School Teachers)	PLO #1 Solving Application Problems	Students will be able to determine an appropriate strategy to solve an application problem,
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