

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 (NSC) - Chemistry	2014-15 (Fall 2014)	ECC: CHEM 1A	General Chemistry I	SLO #3 Lab Safety	Students will adhere to safety protocol in the laboratory regarding eye protection. Students will follow the proper procedure regarding wearing goggles in the laboratory, and keeping them on to protect their eyes.
	2014-15 (Fall 2014)	ECC: CHEM 1B	General Chemistry II	SLO #3 Lab Safety	Students will adhere to safety protocol in the laboratory regarding eye protection. Students will follow the proper procedure regarding wearing goggles in the laboratory, and keeping them on to protect their eyes.
	2014-15 (Fall 2014)	ECC: CHEM 20	Fundamentals of Chemistry	SLO #3 Safety Protocol	Students will adhere to safety protocol in the laboratory regarding eye protection. Students will follow the proper procedure regarding wearing goggles in the laboratory, and keeping them on to protect their eyes.
	2014-15 (Fall 2014)	ECC: CHEM 21A	Survey of General and Organic Chemistry	SLO #3 Safety Protocol	Students will adhere to safety protocol in the laboratory regarding eye protection. Students will follow the proper procedure regarding wearing goggles in the laboratory, and keeping them on to protect their eyes.
	2014-15 (Fall 2014)	ECC: CHEM 21B	Survey of Organic and Biochemistry	SLO #3 Safety Protocol	Students will adhere to safety protocol in the laboratory regarding eye protection. Students will follow the proper procedure regarding wearing goggles in the laboratory, and keeping them on to protect their eyes.
	2014-15 (Fall 2014)	ECC: CHEM 4	Beginning Chemistry	SLO #3 Lab Safety	Students will adhere to safety protocol in the laboratory regarding eye protection. Students will follow the proper procedure regarding wearing goggles in the laboratory, and keeping them on to protect their eyes.
	2014-15 (Fall 2014)	ECC: CHEM 7A	Organic Chemistry I	SLO #3 Lab Safety	Students will adhere to safety protocol in the laboratory regarding eye protection. Students will follow the proper procedure regarding wearing goggles in the laboratory, and keeping them on to protect their eyes.
	2014-15 (Fall 2014)	ECC: CHEM 7B	Organic Chemistry II	SLO #3 Lab Safety	Students will adhere to safety protocol in the laboratory regarding eye protection. Students will follow the proper procedure regarding wearing goggles in the laboratory, and keeping them on to protect their eyes.
	2015-16 (Fall 2015)	ECC: CHEM 1A	General Chemistry I	SLO #2 Structural Representations of Compounds	Students will be able to create (via molecular models or drawings) accurate representations of compounds. The representations will contain appropriate bonds, lone pairs, and geometry.
	2015-16 (Fall 2015)	ECC: CHEM 1B	General Chemistry II	SLO #2 Structural Representations of Compounds	Students will be able to create (via molecular models or drawings) accurate representations of compounds. The representations will contain appropriate bonds, lone pairs, and geometry.
2015-16 (Fall 2015)	ECC: CHEM 20	Fundamentals of	SLO #2 Molecular Models	Students will be able to create (via molecular models or drawings)	

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	2015-16 (Fall 2015)	ECC: CHEM 20	Chemistry	and Drawings	accurate representations of compounds. The representations will contain appropriate bonds, lone pairs, and geometry.
	2015-16 (Fall 2015)	ECC: CHEM 21A	Survey of General and Organic Chemistry	SLO #2 Molecular Models and Drawings	Students will be able to create (via molecular models or drawings) accurate representations of compounds. The representations will contain appropriate bonds, lone pairs, and geometry.
	2015-16 (Fall 2015)	ECC: CHEM 4	Beginning Chemistry	SLO #2 Structural Representations of Compounds	Students will be able to create (via molecular models or drawings) accurate representations of compounds. The representations will contain appropriate bonds, lone pairs, and geometry.
	2015-16 (Fall 2015)	ECC: CHEM 7A	Organic Chemistry I	SLO #2 Structural Representations of Compounds	Students will be able to create (via molecular models or drawings) accurate representations of compounds. The representations will contain appropriate bonds, lone pairs, and geometry.
	2015-16 (Fall 2015)	ECC: CHEM 7B	Organic Chemistry II	SLO #2 Structural Representations of Compounds	Students will be able to create (via molecular models or drawings) accurate representations of compounds. The representations will contain appropriate bonds, lone pairs, and geometry.
	2015-16 (Spring 2016)	ECC: CHEM 21B	Survey of Organic and Biochemistry	SLO #2 Molecular Models and Drawings	Students will be able to create (via molecular models or drawings) accurate representations of compounds. The representations will contain appropriate bonds, lone pairs, and geometry.
	2016-17 (Fall 2016)	ECC: CHEM 1A	General Chemistry I	SLO #1 Equation Writing	On a written exercise, given the names of chemical compounds, students will be able to write the correct reactant formulas, states of matter (when required), identify reaction type, predict the product formulas and balance the chemical equation.
	2016-17 (Fall 2016)	ECC: CHEM 1B	General Chemistry II	SLO #1 Equation Writing	On a written exercise, given the names of chemical compounds, students will be able to write the correct reactant formulas, states of matter (when required), identify reaction type, predict the product formulas and balance the chemical equation.
	2016-17 (Fall 2016)	ECC: CHEM 20	Fundamentals of Chemistry	SLO #1 Chemical Formulas of Reactants	On a written exercise, given the chemical formulas of reactants, students will be able to write the correct formulas of products, identify the reaction type and balance the equation.
	2016-17 (Fall 2016)	ECC: CHEM 21A	Survey of General and Organic Chemistry	SLO #1 Names of Chemical Compounds	On a written exercise, given the names of chemical compounds, students will be able to write the correct reactant formulas, states of matter (when required), identify reaction type, predict the product formulas and balance the chemical equation.
	2016-17 (Fall 2016)	ECC: CHEM 21B	Survey of Organic and Biochemistry	SLO #1 Structures of Reactants for a Reaction	On a written exercise, given the structures of reactants for a reaction, students will be able to write the correct structures of products and identify the reaction type.
	2016-17 (Fall 2016)	ECC: CHEM 4	Beginning Chemistry	SLO #1 Equation Writing	On a written exercise, given the names of chemical compounds, students will be able to write the correct reactant formulas, states of matter (when required), identify reaction type, predict the product formulas and balance the chemical equation.
	2016-17 (Fall 2016)	ECC: CHEM 7A	Organic Chemistry I	SLO #1 Equation Writing	On a written exercise, given the structures of reactants for a reaction, students will be able to write the correct structures of products and identify the reaction type.

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	2016-17 (Fall 2016)	ECC: CHEM 7B	Organic Chemistry II	SLO #1 Equation Writing	On a written exercise, given the structures of reactants for a reaction, students will be able to write the correct structures of products and identify the reaction type.
	2018-19 (Fall 2018)	ECC: CHEM 1A	General Chemistry I	SLO #3 Lab Safety	Students will adhere to safety protocol in the laboratory regarding eye protection. Students will follow the proper procedure regarding wearing goggles in the laboratory, and keeping them on to protect their eyes.
	2018-19 (Fall 2018)	ECC: CHEM 1B	General Chemistry II	SLO #3 Lab Safety	Students will adhere to safety protocol in the laboratory regarding eye protection. Students will follow the proper procedure regarding wearing goggles in the laboratory, and keeping them on to protect their eyes.
	2018-19 (Fall 2018)	ECC: CHEM 20	Fundamentals of Chemistry	SLO #3 Safety Protocol	Students will adhere to safety protocol in the laboratory regarding eye protection. Students will follow the proper procedure regarding wearing goggles in the laboratory, and keeping them on to protect their eyes.
	2018-19 (Fall 2018)	ECC: CHEM 21A	Survey of General and Organic Chemistry	SLO #3 Safety Protocol	Students will adhere to safety protocol in the laboratory regarding eye protection. Students will follow the proper procedure regarding wearing goggles in the laboratory, and keeping them on to protect their eyes.
	2018-19 (Fall 2018)	ECC: CHEM 21B	Survey of Organic and Biochemistry	SLO #3 Safety Protocol	Students will adhere to safety protocol in the laboratory regarding eye protection. Students will follow the proper procedure regarding wearing goggles in the laboratory, and keeping them on to protect their eyes.
	2018-19 (Fall 2018)	ECC: CHEM 4	Beginning Chemistry	SLO #3 Lab Safety	Students will adhere to safety protocol in the laboratory regarding eye protection. Students will follow the proper procedure regarding wearing goggles in the laboratory, and keeping them on to protect their eyes.
	2018-19 (Fall 2018)	ECC: CHEM 7A	Organic Chemistry I	SLO #3 Lab Safety	Students will adhere to safety protocol in the laboratory regarding eye protection. Students will follow the proper procedure regarding wearing goggles in the laboratory, and keeping them on to protect their eyes.
	2018-19 (Fall 2018)	ECC: CHEM 7B	Organic Chemistry II	SLO #3 Lab Safety	Students will adhere to safety protocol in the laboratory regarding eye protection. Students will follow the proper procedure regarding wearing goggles in the laboratory, and keeping them on to protect their eyes.
	2019-20 (Fall 2019)	ECC: CHEM 1A	General Chemistry I	SLO #2 Structural Representations of Compounds	Students will be able to create (via molecular models or drawings) accurate representations of compounds. The representations will contain appropriate bonds, lone pairs, and geometry.
	2019-20 (Fall 2019)	ECC: CHEM 1B	General Chemistry II	SLO #2 Structural Representations of Compounds	Students will be able to create (via molecular models or drawings) accurate representations of compounds. The representations will contain appropriate bonds, lone pairs, and geometry.
	2019-20 (Fall 2019)	ECC: CHEM 20	Fundamentals of	SLO #2 Molecular Models	Students will be able to create (via molecular models or drawings)

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	2019-20 (Fall 2019)	ECC: CHEM 20	Chemistry	and Drawings	accurate representations of compounds. The representations will contain appropriate bonds, lone pairs, and geometry.
	2019-20 (Fall 2019)	ECC: CHEM 21A	Survey of General and Organic Chemistry	SLO #2 Molecular Models and Drawings	Students will be able to create (via molecular models or drawings) accurate representations of compounds. The representations will contain appropriate bonds, lone pairs, and geometry.
	2019-20 (Fall 2019)	ECC: CHEM 21B	Survey of Organic and Biochemistry	SLO #2 Molecular Models and Drawings	Students will be able to create (via molecular models or drawings) accurate representations of compounds. The representations will contain appropriate bonds, lone pairs, and geometry.
	2019-20 (Fall 2019)	ECC: CHEM 4	Beginning Chemistry	SLO #2 Structural Representations of Compounds	Students will be able to create (via molecular models or drawings) accurate representations of compounds. The representations will contain appropriate bonds, lone pairs, and geometry.
	2019-20 (Fall 2019)	ECC: CHEM 7A	Organic Chemistry I	SLO #2 Structural Representations of Compounds	Students will be able to create (via molecular models or drawings) accurate representations of compounds. The representations will contain appropriate bonds, lone pairs, and geometry.
	2020-21 (Fall 2020)	ECC: CHEM 1A	General Chemistry I	SLO #1 Equation Writing	On a written exercise, given the names of chemical compounds, students will be able to write the correct reactant formulas, states of matter (when required), identify reaction type, predict the product formulas and balance the chemical equation.
	2020-21 (Fall 2020)	ECC: CHEM 1B	General Chemistry II	SLO #1 Equation Writing	On a written exercise, given the names of chemical compounds, students will be able to write the correct reactant formulas, states of matter (when required), identify reaction type, predict the product formulas and balance the chemical equation.
	2020-21 (Fall 2020)	ECC: CHEM 20	Fundamentals of Chemistry	SLO #1 Chemical Formulas of Reactants	On a written exercise, given the chemical formulas of reactants, students will be able to write the correct formulas of products, identify the reaction type and balance the equation.
	2020-21 (Fall 2020)	ECC: CHEM 21A	Survey of General and Organic Chemistry	SLO #1 Names of Chemical Compounds	On a written exercise, given the names of chemical compounds, students will be able to write the correct reactant formulas, states of matter (when required), identify reaction type, predict the product formulas and balance the chemical equation.
	2020-21 (Fall 2020)	ECC: CHEM 21B	Survey of Organic and Biochemistry	SLO #1 Structures of Reactants for a Reaction	On a written exercise, given the structures of reactants for a reaction, students will be able to write the correct structures of products and identify the reaction type.
	2020-21 (Fall 2020)	ECC: CHEM 4	Beginning Chemistry	SLO #1 Equation Writing	On a written exercise, given the names of chemical compounds, students will be able to write the correct reactant formulas, states of matter (when required), identify reaction type, predict the product formulas and balance the chemical equation.
	2020-21 (Fall 2020)	ECC: CHEM 7A	Organic Chemistry I	SLO #1 Equation Writing	On a written exercise, given the structures of reactants for a reaction, students will be able to write the correct structures of products and identify the reaction type.
	2020-21 (Fall 2020)	ECC: CHEM 7B	Organic Chemistry II	SLO #1 Equation Writing	On a written exercise, given the structures of reactants for a reaction, students will be able to write the correct structures of products and identify the reaction type.

Unit Name	Course SLO Assessment Cycle	Course ID	Course Name	Course SLO Title	Course SLO Statement
	2020-21 (Fall 2020)	ECC: CHEM 7B	Organic Chemistry II	SLO #2 Structural Representations of Compounds	Students will be able to create (via molecular models or drawings) accurate representations of compounds. The representations will contain appropriate bonds, lone pairs, and geometry.