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) - Biology	2013-14 (Spring 2014)	ECC: BIOL 10	Fundamentals of Biology	SLO #1 Scientific Method	The student will understand and apply principles of the scientific method; recognizing an idea based on reproducible evidence.
	2013-14 (Spring 2014)	ECC: BIOL 101	Principles of Biology I	SLO #1 Scientific Method	The student will understand and apply principles of the scientific method; recognizing an idea based on reproducible evidence.
	2013-14 (Spring 2014)	ECC: BIOL 102	Principles of Biology II	SLO #1 Scientific Method	The student will understand and apply principles of the scientific method; recognizing an idea based on reproducible evidence.
	2013-14 (Spring 2014)	ECC: BIOL 103	Fundamentals of Molecular Biology	SLO #1 Scientific Method	The student will understand and apply principles of the scientific method; recognizing an idea based on reproducible evidence.
	2013-14 (Spring 2014)	ECC: BIOL 15	Environmental Aspects of Biology	SLO #1 Scientific Method	The student will understand and apply principles of the scientific method; recognizing an idea based on reproducible evidence.
	2013-14 (Spring 2014)	ECC: BIOL 16	Field Entomology	SLO #3 Content Knowledge & Tools (Dichotomous Keying)	The student will be able to determine the identity of common insects to order by applying knowledge of insect anatomy and using a dichotomous key.
	2013-14 (Spring 2014)	ECC: BIOL 17	Marine Biology	SLO #1 Scientific Method	The student will understand and apply principles of the scientific method; recognizing an idea based on reproducible evidence.
	2013-14 (Spring 2014)	ECC: BIOL 18	Marine Biology Laboratory	SLO #1 Scientific Method	The student will understand and apply principles of the scientific method; recognizing an idea based on reproducible evidence.
	2013-14 (Spring 2014)	ECC: BIOL 8	Biology of Plants	SLO #1 Scientific Method	The student will understand and apply principles of the scientific method; recognizing an idea based on reproducible evidence.
	2014-15 (Fall 2014)	ECC: BIOL 11	Fundamentals of Zoology	SLO #1 Scientific Method	The student will understand and apply principles of the scientific method; recognizing an idea based on reproducible evidence.
	2014-15 (Fall 2014)	ECC: BIOL 12	Field Zoology	SLO #1 Scientific Method	The student will understand and apply principles of the scientific method; recognizing an idea based on reproducible evidence.
	2015-16 (Spring 2016)	ECC: BIOL 10	Fundamentals of Biology	SLO #2 Tools	The student will be able to use the compound and dissecting microscope to observe cells and microorganisms.
	2015-16 (Spring 2016)	ECC: BIOL 101	Principles of Biology I	SLO #2 Use of Microscope	The student will be able to use the compound and dissecting microscope to observe cells and microorganisms.
	2015-16 (Spring 2016)	ECC: BIOL 102	Principles of Biology II	SLO #2 Tools	The student will be able to use the compound and dissecting microscope to observe cells and microorganisms.
	2015-16 (Spring 2016)	ECC: BIOL 103	Fundamentals of Molecular Biology	SLO #2 Content Knowledge (Central Dogma)	The student will be able to provide a detailed explanation of how the unit-by-unit transfer of genetic information occurs from DNA to RNA to Protein.
	2015-16 (Spring 2016)	ECC: BIOL 15	Environmental Aspects of Biology	SLO #3 Content Knowledge (Materials Cycling)	Students will describe how biologically significant materials move between the biotic and abiotic components of an ecosystem and the role living things play in the cycling of these nutrients.
	2015-16 (Spring 2016)	ECC: BIOL 16	Field Entomology	SLO #1 Scientific Method	The student will understand and apply principles of the scientific method; recognizing an idea based on reproducible evidence.
	2015-16 (Spring 2016)	ECC: BIOL 16	Field Entomology	SLO #2 Tools	The student will be able to observe insects on compound and

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	2015-16 (Spring 2016)	ECC: BIOL 16	Field Entomology	SLO #2 Tools	dissection microscopes.
	2015-16 (Spring 2016)	ECC: BIOL 17	Marine Biology	SLO #3 Content Knowledge (Materials Cycling)	Students will describe how biologically significant materials move between the biotic and abiotic components of an ecosystem and the role living things play in the cycling of these nutrients.
	2015-16 (Spring 2016)	ECC: BIOL 18	Marine Biology Laboratory	SLO #2 Tools	The student will be able to use the compound and dissecting microscopes to observe cells and microorganisms.
	2015-16 (Spring 2016)	ECC: BIOL 8	Biology of Plants	SLO #2 Tools	The student will be able to use the compound and dissecting microscope to observe cells and microorganisms.
	2016-17 (Spring 2017)	ECC: BIOL 10	Fundamentals of Biology	SLO #3 Content Knowledge (Mitosis)	The student will be able to describe key activities in cell replication.
	2016-17 (Spring 2017)	ECC: BIOL 101	Principles of Biology I	SLO #3 Content Knowledge (Energy Flow)	Students will use basic energy principles to explain the flow of energy in living systems, such as those that occur in the cellular metabolic pathways of photosynthesis and cell respiration, or the relationships observed between autotrophs and heterotrophs in ecosystems.
	2016-17 (Spring 2017)	ECC: BIOL 102	Principles of Biology II	SLO #3 Content Knowledge (Mitosis)	The student will be able to describe key activities in cell replication.
	2016-17 (Spring 2017)	ECC: BIOL 103	Fundamentals of Molecular Biology	SLO #3 Content Knowledge (Control of Gene Expression)	The student will be able to explain various prokaryotic and eukaryotic gene expression control mechanisms.
	2016-17 (Spring 2017)	ECC: BIOL 10H	Honors Fundamentals of Biology	SLO #3 Content Knowledge (Mitosis)	The student will be able to describe key activities at each stage of mitosis.
	2016-17 (Spring 2017)	ECC: BIOL 15	Environmental Aspects of Biology	SLO #2 Content Knowledge (Energy Flow)	Students will use basic energy principles to explain the flow of energy in living systems, such as those that occur in the cellular metabolic pathways of photosynthesis and cell respiration, or the relationships observed between autotrophs and heterotrophs in ecosystems.
	2016-17 (Spring 2017)	ECC: BIOL 16	Field Entomology	SLO #3 Content Knowledge & Tools (Dichotomous Keying)	The student will be able to determine the identity of common insects to order by applying knowledge of insect anatomy and using a dichotomous key.
	2016-17 (Spring 2017)	ECC: BIOL 17	Marine Biology	SLO #2 Content Knowledge (Energy Flow)	Students will use basic energy principles to explain the flow of energy in living systems, such as those that occur in the cellular metabolic pathways of photosynthesis and cell respiration, or the relationships observed between autotrophs and heterotrophs in ecosystems.
	2016-17 (Spring 2017)	ECC: BIOL 18	Marine Biology Laboratory	SLO #2 Tools	The student will be able to use the compound and dissecting microscopes to observe cells and microorganisms.
	2016-17 (Spring 2017)	ECC: BIOL 18	Marine Biology Laboratory	SLO #3 Content Knowledge (Energy Flow)	The student will demonstrate how the principles of energy flow exist in relationships observed between autotrophs and heterotrophs in ecosystems.
	2016-17 (Spring 2017)	ECC: BIOL 8	Biology of Plants	SLO #3 Content Knowledge	Students will use basic energy principles to explain the flow of

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	2016-17 (Spring 2017)	ECC: BIOL 8	Biology of Plants	(Energy Flow)	energy in living systems, such as those that occur in the cellular metabolic pathways of photosynthesis and cell respiration, or the relationships observed between autotrophs and heterotrophs in ecosystems.
	2017-18 (Fall 2017)	ECC: BIOL 11	Fundamentals of Zoology	SLO #2 Tools	The student will be able to use the compound and dissecting microscope to observe cells and microorganisms.
	2017-18 (Fall 2017)	ECC: BIOL 11	Fundamentals of Zoology	SLO #3 Content Knowledge (Mitosis)	The student will be able to describe key activities in cell replication.
	2017-18 (Fall 2017)	ECC: BIOL 12	Field Zoology	SLO #2 Tools	The student will be able to use the compound and dissecting microscope to observe cells and microorganisms.
	2017-18 (Fall 2017)	ECC: BIOL 12	Field Zoology	SLO #3 Content Knowledge (Energy Flow)	Students will use basic energy principles to explain the flow of energy in living systems, such as those that occur in the cellular metabolic pathways of photosynthesis and cell respiration, or the relationships observed between autotrophs and heterotrophs in ecosystems.
	2017-18 (Spring 2018)	ECC: BIOL 10	Fundamentals of Biology	SLO #1 Scientific Method	The student will understand and apply principles of the scientific method; recognizing an idea based on reproducible evidence.
	2017-18 (Spring 2018)	ECC: BIOL 101	Principles of Biology I	SLO #1 Scientific Method	The student will understand and apply principles of the scientific method; recognizing an idea based on reproducible evidence.
	2017-18 (Spring 2018)	ECC: BIOL 102	Principles of Biology II	SLO #1 Scientific Method	The student will understand and apply principles of the scientific method; recognizing an idea based on reproducible evidence.
	2017-18 (Spring 2018)	ECC: BIOL 103	Fundamentals of Molecular Biology	SLO #1 Scientific Method	The student will understand and apply principles of the scientific method; recognizing an idea based on reproducible evidence.
	2017-18 (Spring 2018)	ECC: BIOL 10H	Honors Fundamentals of Biology	SLO #1 Scientific Method	The student will understand and apply principles of the scientific method; recognizing an idea based on reproducible evidence. Honors students will design a novel experiment, gather evidence and use scholarly research to support the explanation of the results.
	2017-18 (Spring 2018)	ECC: BIOL 15	Environmental Aspects of Biology	SLO #1 Scientific Method	The student will understand and apply principles of the scientific method; recognizing an idea based on reproducible evidence.
	2017-18 (Spring 2018)	ECC: BIOL 16	Field Entomology	SLO #1 Scientific Method	The student will understand and apply principles of the scientific method; recognizing an idea based on reproducible evidence.
	2017-18 (Spring 2018)	ECC: BIOL 17	Marine Biology	SLO #1 Scientific Method	The student will understand and apply principles of the scientific method; recognizing an idea based on reproducible evidence.
	2017-18 (Spring 2018)	ECC: BIOL 18	Marine Biology Laboratory	SLO #1 Scientific Method	The student will understand and apply principles of the scientific method; recognizing an idea based on reproducible evidence.
	2017-18 (Spring 2018)	ECC: BIOL 8	Biology of Plants	SLO #1 Scientific Method	The student will understand and apply principles of the scientific method; recognizing an idea based on reproducible evidence.
	2018-19 (Fall 2018)	ECC: BIOL 11	Fundamentals of Zoology	SLO #1 Scientific Method	The student will understand and apply principles of the scientific method; recognizing an idea based on reproducible evidence.
	2018-19 (Fall 2018)	ECC: BIOL 12	Field Zoology	SLO #1 Scientific Method	The student will understand and apply principles of the scientific method; recognizing an idea based on reproducible evidence.

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	2019-20 (Spring 2020)	ECC: BIOL 10	Fundamentals of Biology	SLO #2 Tools	The student will be able to use the compound and dissecting microscope to observe cells and microorganisms.
	2019-20 (Spring 2020)	ECC: BIOL 101	Principles of Biology I	SLO #2 Use of Microscope	The student will be able to use the compound and dissecting microscope to observe cells and microorganisms.
	2019-20 (Spring 2020)	ECC: BIOL 102	Principles of Biology II	SLO #2 Tools	The student will be able to use the compound and dissecting microscope to observe cells and microorganisms.
	2019-20 (Spring 2020)	ECC: BIOL 103	Fundamentals of Molecular Biology	SLO #2 Content Knowledge (Central Dogma)	The student will be able to provide a detailed explanation of how the unit-by-unit transfer of genetic information occurs from DNA to RNA to Protein.
	2019-20 (Spring 2020)	ECC: BIOL 10H	Honors Fundamentals of Biology	SLO #2 Tools	The student will be able to use the compound and dissecting microscope to observe cells and microorganisms.
	2019-20 (Spring 2020)	ECC: BIOL 15	Environmental Aspects of Biology	SLO #3 Content Knowledge (Materials Cycling)	Students will describe how biologically significant materials move between the biotic and abiotic components of an ecosystem and the role living things play in the cycling of these nutrients.
	2019-20 (Spring 2020)	ECC: BIOL 16	Field Entomology	SLO #2 Tools	The student will be able to observe insects on compound and dissection microscopes.
	2019-20 (Spring 2020)	ECC: BIOL 17	Marine Biology	SLO #3 Content Knowledge (Materials Cycling)	Students will describe how biologically significant materials move between the biotic and abiotic components of an ecosystem and the role living things play in the cycling of these nutrients.
	2019-20 (Spring 2020)	ECC: BIOL 18	Marine Biology Laboratory	SLO #2 Tools	The student will be able to use the compound and dissecting microscopes to observe cells and microorganisms.
	2019-20 (Spring 2020)	ECC: BIOL 8	Biology of Plants	SLO #2 Tools	The student will be able to use the compound and dissecting microscope to observe cells and microorganisms.
	2020-21 (Fall 2020)	ECC: BIOL 11	Fundamentals of Zoology	SLO #2 Tools	The student will be able to use the compound and dissecting microscope to observe cells and microorganisms.
	2020-21 (Fall 2020)	ECC: BIOL 12	Field Zoology	SLO #2 Tools	The student will be able to use the compound and dissecting microscope to observe cells and microorganisms.