

BIOLOGY Program

ISLOs, PSLOs, CSLOs, Mapping, and Assessment Plan

		Year 1		Year 2		Year 3		Year 4		Year 5		Year 6	
		F 2013	S 2014	F 2014	S 2015	F 2015	S 2016	F 2016	S 2017	F 2017	S 2018	F 2018	S 2019
	BIOL 14 - Natural History, Ecology and Conservation (Also known as ESS 14)	C - Completed, P- Planned											
CSLO 1	Evaluate and assess the biophysiological characteristics and limiting factors of the major ecosystems of California.	A,C,D											
CSLO 2	Evaluate the impacts of humans on the environment.	B,E	C										
CSLO 3	Judge the effects of geology, climate, weather and ecological interactions on the natural history of organisms and environments.	A,B,C,D,E							C				
CSLO 4	Justify the role that evolution plays in the natural history and conservation of organisms.	A,B,D,E	C										
	BIOL 15 - Marine Biology												
CSLO 1	Evaluate the impacts of humans on marine and intertidal organisms and environments.	A,B,D,E											
CSLO 2	Formulate the biophysiological characteristics of the marine and intertidal environments and appraise the adaptations of the organisms found within.	A,B,C,D					C		C				
CSLO 3	Diagnose the effect of the movement of water on marine and intertidal environments and diagram the forces that cause those movements.	A,B,D											
CSLO 4	Critique the principles of ecology as they apply to marine and intertidal environments.	A,B,C,D,E											
CSLO 5	Diagnose the effect of niche partitioning on marine communities.	A,B,C,D											
	BIOL 16A - Local Ecosystems of Placer County												
CSLO 1	Evaluate the impacts of humans on the environments of Placer County.	A,D,E								C			
CSLO 2	Appraise the ecological and geological principles that affect the natural history of Placer County.	A,C,D								C			
CSLO 3	Hypothesize the factors that have shaped the evolutionary adaptations of the organisms of Placer County.	A,C,D								C			
CSLO 4	Compose a detailed field journal reflective of the field trip in Placer County.	A,B,C,D,E								C			

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BIOL 16B - Local Ecosystems of Nevada County		C - Completed, P- Planned											
CSLO 1	Evaluate the impacts of humans on the environments of Nevada County.	A,D,E											
CSLO 2	Appraise the ecological and geological principles that affect the natural history of Nevada County.	A,C,D											
CSLO 3	Hypothesize the factors that have shaped the evolutionary adaptations of the organisms of Nevada County.	A,C,D											
CSLO 4	Compose a detailed field journal reflective of the field trip experience in Nevada County.	A,B,D,E							C				
BIOL 16C - Vernal Pools and the California Prairie													
CSLO 1	Evaluate the impacts of humans on the environments of the vernal pool and prairie environment.	A,D,E											
CSLO 2	Appraise the ecological and geological principles that affect the natural history of the vernal pool and prairie environment.	A,C,D											
CSLO 3	Hypothesize the factors that have shaped the evolutionary adaptations of the organisms of the vernal pool and prairie environment.	A,C,D											
CSLO 4	Compose a detailed field journal reflective of the field trip experience in the vernal pool and prairie environment.	A,B,D,E			C								
BIOL 16D - Biology of Waterfowl and Marsh Birds													
CSLO 1	Evaluate the impacts of humans on the environments of wetlands and the organisms that reside there.	A,D,E											
CSLO 2	Appraise the ecological and geological principles that affect the wetland environment and the organisms that reside there.	A,C,D											
CSLO 3	Hypothesize the factors that have shaped the evolutionary adaptations of the organisms of the wetland environment.	A,C,D											
CSLO 4	Compose a detailed field journal reflective of the field trip experience in the wetland environment.	A,B,D,E								C			
BIOL 16E - Ecology of the Sierran Conifer Forest													
CSLO 1	Evaluate the impacts of humans on the environments of Sierran coniferous forest.	A,D,E										C	
CSLO 2	Appraise the ecological and geological principles that affect the natural history of the Sierran coniferous forest.	A,C,D										C	
CSLO 3	Hypothesize the factors that have shaped the evolutionary adaptations of the organisms of the Sierran coniferous forest.	A,C,D										C	
CSLO 4	Compose a detailed field journal reflective of the field trip experience in the Sierran coniferous forest.	A,B,D,E					C					C	

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	BIOL 16G - Field Paleontology and Ancient Environments (Also known as ESCI 16G)	C - Completed, P- Planned											
CSLO 1	Interpret the stratigraphy to understand the paleoenvironmental setting of fossils.					C							
CSLO 2	Apply principles of geology, biology and ecology in order to reconstruct the paleoenvironment.											C	
CSLO 3	Collect, classify, and catalog paleontological specimens.												
	BIOL 16H - Ecology of the Mendocino Coast												
CSLO 1	Evaluate the impacts of humans on the environments of the Mendocino coast.												
CSLO 2	Appraise the ecological and geological principles that affect the natural history of the Mendocino coast.												
CSLO 3	Hypothesize the factors that have shaped the evolutionary adaptations of the organisms of the Mendocino coast.												
CSLO 4	Compose a detailed field journal reflective of the field trip experience at the Mendocino coast.						C					C	
	BIOL 16I - Biology of Mono Lake and the Great Basin												
CSLO 1	Evaluate the impacts of humans on the environments of the Mono Lake and Great Basin Regions.												
CSLO 2	Appraise the ecological and geological principles that affect the natural history of the Mono Lake and Great Basin Regions.												
CSLO 3	Hypothesize the factors that have shaped the evolutionary adaptations of the organisms of the Mono Lake and Great Basin Regions.												
CSLO 4	Compose a detailed field journal reflective of the field trip experience at the Mono Lake and Great Basin Regions.								C				
	BIOL 16J - Biology of Point Reyes National Seashore												
CSLO 1	Evaluate the impacts of humans on the environments of the Point Reyes National Seashore.												
CSLO 2	Appraise the ecological and geological principles that affect the natural history of the Point Reyes National Seashore.												
CSLO 3	Hypothesize the factors that have shaped the evolutionary adaptations of the organisms of the Point Reyes National Seashore.												
CSLO 4	Compose a detailed field journal reflective of the field trip experience at the Point Reyes National Seashore.					C							

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BIOL 16K - Foothill Ecology of the Sierra Nevada		C - Completed, P- Planned											
CSLO 1	Evaluate the impacts of humans on the environments of the foothills of the Sierra Nevada region.	A,D,E											
CSLO 2	Appraise the ecological and geographical principles that affect the natural history of the foothills of the Sierra Nevada region.	A,D,E											
CSLO 3	Hypothesize the factors that have shaped the evolutionary adaptations of the organisms of the foothills of the Sierra Nevada region.	A,C,D											
CSLO 4	Compose a detailed field journal reflective of the field trip experience of the foothills of the Sierra Nevada region.	A,B,D,E											C
BIOL 16L - Aquatic and Riparian Environments of California Waterways													
CSLO 1	Evaluate the impacts of humans on the environments of the foothills of California waterways and riparian environments.	A,D,E											
CSLO 2	Appraise the ecological and geological principles that affect the natural history of the foothills of California waterways and riparian environments.	A,C,D											
CSLO 3	Hypothesize the factors that have shaped the evolutionary adaptations of the organisms of the foothills of California waterways and riparian environments.	A,C,D											
CSLO 4	Compose a detailed field journal reflective of the field trip experience of the foothill of California waterways and riparian environments.	A,B,D,E					C						
BIOL 16M - Marine Mammals and Birds													
CSLO 1	Evaluate the impacts of humans on marine mammals and birds and the environments that they live within.	A,D,E											
CSLO 2	Appraise the ecological and geological principles that affect marine mammals and birds and the environments that they live within.	A,C,D											
CSLO 3	Hypothesize the factors that have shaped the evolutionary adaptations of marine mammals and birds.	A,C,D											
CSLO 4	Compose a detailed field journal reflective of the field experience to examine marine mammals and birds and the environments that they live within.	A,B,D,E					C						
BIOL 16N - Ecology of the Modoc Plateau													
CSLO 1	Evaluate the impacts of humans on the environments of the Modoc Plateau.	A,D,E											
CSLO 2	Appraise the ecological and geographical principles that affect the environments of the Modoc Plateau.	A,C,D											
CSLO 3	Hypothesize the factors that have shaped the evolutionary adaptations of the organisms living in the environments of the Modoc Plateau.	A,C,D											
CSLO 4	Compose a detailed field journal reflective of the field trip experience to the environments of the Modoc Plateau.	A,B,D,E							C				

