Sem	ester				2019 - 20 2020 - 21					2021 - 22			2022 - 23			2023 - 24	3 - 24	
		GE		Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer
BIO	1040		What is evolution?	2019	2020 X	2020		2021 X	2021	2021	2022 X	2022		2023 X	2023	2023	2024 X	2024
BIO BIO	1060 1110	B2 B2	Human Biology Life Science	X	X	X	X	X	X	X	X	X	Х	X X	X	X	X	X
BIO	1110L 1150	B3 B2	Life Science Laboratory Basic Biology	X	X	X	X	X	Х	X	X	Х		X X		X	X	X
BIO	1150L		Basic Biology Laboratory Foundations of Biology: Energy, Matter, and	X	X			X		Х	Х		X	Х		Х	Х	
BIO	1210	B2	Information Foundations of Biology: Energy, Matter, and	X	Х		X	Х		X	X		X	Х		Х	X	
BIO	1210L	B3	Information Laboratory Foundations of Biology: Evolution, Ecology, and	Х	х		X	Х		х	х		Х	Х		Х	х	
BIO	1220		Biodiversity Foundations of Biology: Evolution, Ecology, and	х	x		x	х		х	x		х	х		Х	x	
BIO	1220L		Biodiversity Laboratory	X	x		×	X		×	x		x	X		X	x	
BIO	2050L			X	X		Х	X		X	X		X	X		X	X	
BIO	2060L			X	X			X		X	X			X		X	X	
BIO	2070 2070L		Animal Biology Animal Biology Laboratory	X	X		Х	X		X	X		Х	X X		X	X	
BIO	2110L 2120			X	X			X		X	X		Х	X X		X	X	
BIO	2120L 2300		Life Science for Elementary Educators Lab Horizons in Biotechnology	X	X			X		Х	X			X X		Х	X	
BIO	2340 2340L				X	X	X	X	X	X	X	X		X X	X	X	X	X
BIO	2350 2350L		Human Physiology	X	X	X	X	X	X	X	X	X		X X		X	X	X
BIO	2370		Introduction to Invertebrate Zoology	Х			Х			X			Х			Х		
BIO	2370L 2380		Introduction to Invertebrate Zoology Laboratory Introduction to Vertebrate Zoology	X			X			X X			X			X		
BIO	2380L		Introduction to Vertebrate Zoology Introduction to Vertebrate Zoology Laboratory	X			x			X			x			X		
BIO	2400		Genetics	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х
BIO	2990 3000	B5	Spec. Topics for LD Students Genetics and Human Issues		X			X			X			X			Х	
BIO	3010 3030	B5 B5	Human Sexuality Sexually Transmitted Diseases and Safer Sex	Х	X	X	Х	X	X	X	X	Х		X X		Х	X	X
BIO	3040 3070	B5 B5	Environment and Society Biology of Human Pregnancy	X	X X		X	X X		X	X			X X		X	X	
BIO	3090 3120	B5	Biology of the Brain Biodiversity Conservation	X			X			X			X			X		
BIO	3130		Marine Biology	Х			х			X			Х			Х		
BIO	3220		Cell and Molecular Biology	×	×	×	x	×	×	x	×	×	×	×	×	×	×	×
			, , , , , , , , , , , , , , , , , , ,		×	^			^		~	^		×	^	×	~	^
BIO	3240 3250		Principles of Evolution Principles of Ecology	X	X		X	X		X	X		X	X		X	X	
BIO BIO	3250L 3500		Ecology Laboratory California Flora		X			X			X			X X			X	
BIO	3500L 3600		California Flora Laboratory General Epidemiology	x	X		x	X		x	Х		x	X		Х	X	
BIO	3620 3620L			X						X						X		
BIO	3640 3640L		Food Microbiology Food Microbiology Laboratory	X	X		X X	X		X	x		X	X		X	×	
BIO	4020 4030		Developmental Biology Human Genetics	X	X			х		v	X			х		X	X	
BIO	4060		Regulatory Affairs and Safety Assessment	,	Х			Х			Х			Х			Х	
PHY	4100		Biophysics (Please consult Physics Dept. for updated schedule)		х			X			x			X			x	
BIO	4140 4180		Biology of Species Invasions Marine Ecology	Х			х	X		Х			х	X		Х		
BIO	4180L 4240		Marine Ecology Lab Neuromuscular Physiology	X			X			X			X			X		
BIO	4300 4320		Concepts of Molecular Biology Molecular Biology Techniques	X	X		X	X		Х	X		X	X		Х	X	
BIO	4320L 4360		Molecular Biology Techniques Laboratory Recombinant DNA and Protein Technology	X	Х			X		X	Х			X		X	Х	
BIO	4360L		Recombinant DNA and Protein Technology Laboratory	х						x						х		
BIO	4380 4380L		Bioinformatics Bioinformatics Laboratory		X X			X X			X			X X			X	
BIO	4390 4400		Cancer Cell Biology Stem Cell Biology		X X			X			X			X X			X	
BIO	4400L 4410		Stem Cell Biology Laboratory	Y	X		Y	X		v	X			X		Y	X	
BIO	4450		Physiology I: Cells	X X			X	^		x x	^		X			X	^	
BIO	4450L 4460		Physiology II: Systems	^	Х		Х	X		Х	X		^	X		^	X	
BIO	4460L 4480		Physiology II: Systems Laboratory Plant Physiology		X			X			X			X			X	
BIO	4480L 4490		Plant Physiology Lab Marine Botany		X			X			X			X			X	
BIO	4490L 4520		Marine Botany Lab Evolution of Plants	Х	X		X			X	X		х			X	X	
BIO	4520L 4530		Evolution of Plants Laboratory Plant Anatomy	X			X			X			X			X X		
BIO	4530L 4540		Plant Anatomy Laboratory Plant Genetics	X			X			X			X			X		<u>L</u>
BIO	4550 4550L		Field Biology Field Biology Laboratory	TBD TBD	TBD TBD		TBD	TBD TBD		TBD TBD	TBD TBD		TBD TBD	TBD TBD		TBD TBD	TBD TBD	
BIO	4570L 4570L		Plants and the Environment	. 50	X			X X		. 50	X			X		. 30	X	
			Plants and the Environment Laboratory Ecology and Conservation of Hawaiian		~		1	^			,			^		1	Ĉ	
BIO	4580		Ecosystems Ecology and Conservation of Hawaiian		^													
BIO	4580L 4590AS				X X			X		X	X X			X		х	X X	
BIO	4590S 4610		Ethnobotany – Service Learning Undergraduate Research	X	X X		X	X X		X	X X		X	X X		X	X	
BIO	4620 4635		Senior Thesis	X	X X		X	X X		X	X X		X	X X		X	X X	
BIO	4635L		Medical Microbiology Laboratory	X	X			X		X	X			X		X	Х	
BIO	4650 4650L		Immunology Immunology Lab	X	X X		X	X X		x	X X		X	x x		X X	X	
BIO	4660		Microbial Physiology	^	Х			X		^	X			X		^	X	
BIO	4660L 4670		Microbial Physiology Laboratory General Virology	X	X		Х	X		X	X		X	X		X	X	
BIO	4670L 4680			X	X		Х	Х		X	Х		X	Х		X	X	
BIO	4680L 4700		Hematology	Х	X		Х	X		Х	Х			X		Х	Х	
BIO	4700L 4800		Hematology Lab Entomology	LΞ	X X			X X		<u> </u>	X			X X			X	
BIO	4800L 4810		Entomology Laboratory Histology		X X			X X			X X			X X			X	
BIO	4810L 4820		Histology Lab Biology of Fishes		X			X		x	X			X		x	Х	
BIO BIO	4820L 4840		Biology of Fishes Laboratory Herpetology		X			x		x	X			x		X	X	
BIU	4040		respectivgy	+	10	1		<u> ^ </u>	1		Iv	L	-	lv.			Iv	

	Interpretation of Science Activity – Service											
BIO 4910AS	Learning	X	X	X	X	X	X	X	Х	X	X	
BIO 4910S	Interpretation of Science – Service Learning	X	X	X	X	Х	X	Х	X	Х	X	
BIO 4990	Spec. Topics for UG	TBD										
BIO 4990L	Spec. Topics for UG	TBD										
BIO 4990S	Service Learning	X				X				X		
BIO 5350	Advanced Cell Biology			X				X				
BIO 5370	Advanced Virology				X		X		X		X	
BIO 5400	Biogeography	X		X		X		X		X		
BIO 5500	Bio Effects of Climate Change				X				X			
BIO 5600	Advanced Topics in Microbiology (1-3 units)	TBD										
BIO 5600L	Advanced Microbiology Laboratory	TBD										
				l I								
BIO 5800L	Introduction to Instructional Methods in Biology	X		X		X		X		X		
BIO 5870	Advanced Muscle Biology and Disease		X				X				X	
BIO 5990	Advanced Topics in Biology	TBD										
BIO 5990L	Graduate Laboratory	TBD										
BIO 6800	Seminar in Biology	X	X	X	X	X	X	X	X	X	X	
BIO 6930	Presentation of Thesis Research Proposal	X	X	X	X	X	X	X	X	X	X	
BIO 6940	Master's Thesis/Project Research	X	X	X	X	X	X	X	X	X	X	
BIO 6960	Master's Degree Thesis	X	X	X	X	X	X	X	X	X	X	
		•		•		•		•		•		