

Semester			2019 - 20			2020 - 21			2021 - 22			2022 - 23			2023 - 24			
Subject	Number	GE Attribute	Title	Fall 2019	Spring 2020	Summer 2020	Fall 2020	Spring 2021	Summer 2021	Fall 2021	Spring 2022	Summer 2022	Fall 2022	Spring 2023	Summer 2023	Fall 2023	Spring 2024	Summer 2024
BIO	1040	B2	What is evolution?	X	X		X	X		X	X		X	X		X	X	
BIO	1060	B2	Human Biology	X	X		X	X		X	X		X	X		X	X	
BIO	1110	B2	Life Science	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BIO	1110L	B3	Life Science Laboratory	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BIO	1150	B2	Basic Biology	X	X		X	X		X	X		X	X		X	X	
BIO	1150L	B3	Basic Biology Laboratory	X	X		X	X		X	X		X	X		X	X	
BIO	1210	B2	Foundations of Biology: Energy, Matter, and Information	X	X		X	X		X	X		X	X		X	X	
BIO	1210L	B3	Foundations of Biology: Energy, Matter, and Information Laboratory	X	X		X	X		X	X		X	X		X	X	
BIO	1220		Foundations of Biology: Evolution, Ecology, and Biodiversity	X	X		X	X		X	X		X	X		X	X	
BIO	1220L		Foundations of Biology: Evolution, Ecology, and Biodiversity Laboratory	X	X		X	X		X	X		X	X		X	X	
BIO	2050		Form and Function in Plants	X	X		X	X		X	X		X	X		X	X	
BIO	2050L		Form and Function in Plants Laboratory	X	X		X	X		X	X		X	X		X	X	
BIO	2060		Basic Microbiology	X	X		X	X		X	X		X	X		X	X	
BIO	2060L		Basic Microbiology Laboratory	X	X		X	X		X	X		X	X		X	X	
BIO	2070		Animal Biology	X	X		X	X		X	X		X	X		X	X	
BIO	2070L		Animal Biology Laboratory	X	X		X	X		X	X		X	X		X	X	
BIO	2110L		Biostatistics Laboratory	X	X		X	X		X	X		X	X		X	X	
BIO	2120		Life Science for Elementary Educators	X	X		X	X		X	X		X	X		X	X	
BIO	2120L		Life Science for Elementary Educators Lab	X	X		X	X		X	X		X	X		X	X	
BIO	2300		Horizons in Biotechnology	X	X		X	X		X	X		X	X		X	X	
BIO	2340		Human Anatomy	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BIO	2340L		Human Anatomy Laboratory	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BIO	2350		Human Physiology	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BIO	2350L		Human Physiology Laboratory	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BIO	2370		Introduction to Invertebrate Zoology	X	X		X	X		X	X		X	X		X	X	
BIO	2370L		Introduction to Invertebrate Zoology Laboratory	X	X		X	X		X	X		X	X		X	X	
BIO	2380		Introduction to Vertebrate Zoology	X	X		X	X		X	X		X	X		X	X	
BIO	2380L		Introduction to Vertebrate Zoology Laboratory	X	X		X	X		X	X		X	X		X	X	
BIO	2400		Genetics	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BIO	2990		Spec. Topics for LD Students		X			X			X			X			X	
BIO	3000	B5	Genetics and Human Issues		X			X			X			X			X	
BIO	3010	B5	Human Sexuality	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BIO	3030	B5	Sexually Transmitted Diseases and Safer Sex		X			X			X			X			X	
BIO	3040	B5	Environment and Society	X	X		X	X		X	X		X	X		X	X	
BIO	3070	B5	Biology of Human Pregnancy	X	X		X	X		X	X		X	X		X	X	
BIO	3090	B5	Biology of the Brain	X	X		X	X		X	X		X	X		X	X	
BIO	3120	B5	Biodiversity Conservation	X	X		X	X		X	X		X	X		X	X	
BIO	3130	B5	Marine Biology	X	X		X	X		X	X		X	X		X	X	
BIO	3220		Cell and Molecular Biology	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BIO	3240		Principles of Evolution	X	X		X	X		X	X		X	X		X	X	
BIO	3250		Principles of Ecology	X	X		X	X		X	X		X	X		X	X	
BIO	3250L		Ecology Laboratory		X			X			X			X			X	
BIO	3500		California Flora		X			X			X			X			X	
BIO	3500L		California Flora Laboratory		X			X			X			X			X	
BIO	3600		General Epidemiology	X	X		X	X		X	X		X	X		X	X	
BIO	3620		Applied Microbiology	X	X		X	X		X	X		X	X		X	X	
BIO	3620L		Applied Microbiology Lab	X	X		X	X		X	X		X	X		X	X	
BIO	3640		Food Microbiology	X	X		X	X		X	X		X	X		X	X	
BIO	3640L		Food Microbiology Laboratory	X	X		X	X		X	X		X	X		X	X	
BIO	4020		Developmental Biology	X	X		X	X		X	X		X	X		X	X	
BIO	4030		Human Genetics	X	X		X	X		X	X		X	X		X	X	
BIO	4060		Regulatory Affairs and Safety Assessment	X	X		X	X		X	X		X	X		X	X	
PHY	4100		Biophysics (Please consult Physics Dept. for updated schedule)		X			X			X			X			X	
BIO	4140		Biology of Species Invasions		X			X			X			X			X	
BIO	4180		Marine Ecology	X	X		X	X		X	X		X	X		X	X	
BIO	4180L		Marine Ecology Lab	X	X		X	X		X	X		X	X		X	X	
BIO	4190		Neuroscience I: Cell and Molecular	X	X		X	X		X	X		X	X		X	X	
BIO	4190L		Neuroscience I: cell and molecular laboratory	X	X		X	X		X	X		X	X		X	X	
BIO	4200		Neuroscience II: Neural Systems		X			X			X			X			X	
BIO	4200L		Neuroscience II: Neural Systems Laboratory		X			X			X			X			X	
BIO	4240		Neuromuscular Physiology	X	X		X	X		X	X		X	X		X	X	
BIO	4300		Concepts of Molecular Biology	X	X		X	X		X	X		X	X		X	X	
BIO	4320		Molecular Biology Techniques		X			X			X			X			X	
BIO	4320L		Molecular Biology Techniques Laboratory		X			X			X			X			X	
BIO	4360		Recombinant DNA and Protein Technology	X	X		X	X		X	X		X	X		X	X	
BIO	4360L		Recombinant DNA and Protein Technology Laboratory	X	X		X	X		X	X		X	X		X	X	
BIO	4380		Bioinformatics		X			X			X			X			X	
BIO	4380L		Bioinformatics Laboratory		X			X			X			X			X	
BIO	4390		Cancer Cell Biology	X	X		X	X		X	X		X	X		X	X	
BIO	4400		Stem Cell Biology	X	X		X	X		X	X		X	X		X	X	
BIO	4400L		Stem Cell Biology Laboratory	X	X		X	X		X	X		X	X		X	X	
BIO	4410		Internship in Biology	X	X		X	X		X	X		X	X		X	X	
BIO	4450		Physiology I: Cells	X	X		X	X		X	X		X	X		X	X	
BIO	4450L		Physiology I: Cells Laboratory	X	X		X	X		X	X		X	X		X	X	
BIO	4460		Physiology II: Systems		X			X			X			X			X	
BIO	4460L		Physiology II: Systems Laboratory		X			X			X			X			X	
BIO	4480		Plant Physiology	X	X		X	X		X	X		X	X		X	X	
BIO	4480L		Plant Physiology Lab	X	X		X	X		X	X		X	X		X	X	
BIO	4490		Marine Botany		X			X			X			X			X	
BIO	4490L		Marine Botany Lab		X			X			X			X			X	
BIO	4520		Evolution of Plants	X	X		X	X		X	X		X	X		X	X	
BIO	4520L		Evolution of Plants Laboratory	X	X		X	X		X	X		X	X		X	X	
BIO	4530		Plant Anatomy	X	X		X	X		X	X		X	X		X	X	
BIO	4530L		Plant Anatomy Laboratory	X	X		X	X		X	X		X	X		X	X	
BIO	4540		Plant Genetics		X			X			X			X			X	
BIO	4550		Field Biology	TBD	TBD		TBD	TBD		TBD	TBD		TBD	TBD		TBD	TBD	
BIO	4550L		Field Biology Laboratory	TBD	TBD		TBD	TBD		TBD	TBD		TBD	TBD		TBD	TBD	
BIO	4570		Plants and the Environment		X			X			X			X			X	
BIO	4570L		Plants and the Environment Laboratory		X			X			X			X			X	
BIO	4580		Ecology and Conservation of Hawaiian Ecosystems		X			X			X			X			X	
BIO	4580L		Ecology and Conservation of Hawaiian Ecosystems Laboratory		X			X			X			X			X	
BIO	4590AS		Ethnobotany Activity – Service Learning	X	X		X	X		X	X		X	X		X	X	
BIO	4590S		Ethnobotany – Service Learning	X	X		X	X		X	X		X	X		X	X	
BIO	4610		Undergraduate Research	X	X		X	X		X	X		X	X		X	X	
BIO	4620		Senior Thesis	X	X		X	X		X	X		X	X		X	X	
BIO	4635		Medical Microbiology	X	X		X	X		X	X		X	X		X	X	
BIO	4635L		Medical Microbiology Laboratory	X	X		X	X		X	X		X	X		X	X	
BIO	4650		Immunology	X	X		X	X		X	X		X	X		X	X	
BIO	4650L		Immunology Lab	X	X		X	X		X	X		X	X		X	X	

BIO	4810L	Histology Lab		X			X			X			X			X	
BIO	4820	Biology of Fishes							X							X	
BIO	4820L	Biology of Fishes Laboratory							X							X	
BIO	4840	Herpetology		X			X			X			X			X	
BIO	4840L	Herpetology Laboratory		X			X			X			X			X	
BIO	4910AS	Interpretation of Science Activity – Service Learning	X	X		X	X		X	X		X	X		X	X	
BIO	4910S	Interpretation of Science – Service Learning	X	X		X	X		X	X		X	X		X	X	
BIO	4990	Spec. Topics for UG	TBD	TBD		TBD	TBD		TBD	TBD		TBD	TBD		TBD	TBD	
BIO	4990L	Spec. Topics for UG	TBD	TBD		TBD	TBD		TBD	TBD		TBD	TBD		TBD	TBD	
BIO	4990S	Service Learning	X						X						X		
BIO	5350	Advanced Cell Biology				X						X					
BIO	5370	Advanced Virology				X	X		X	X		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	TBD		TBD	TBD		TBD	TBD		TBD	TBD		TBD	TBD	
BIO	5600L	Advanced Microbiology Laboratory	TBD	TBD		TBD	TBD		TBD	TBD		TBD	TBD		TBD	TBD	
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	TBD		TBD	TBD		TBD	TBD		TBD	TBD		TBD	TBD	
BIO	5990L	Graduate Laboratory	TBD	TBD		TBD	TBD		TBD	TBD		TBD	TBD		TBD	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	