

		Learning outcomes (I = introduced; R = reinforced; E = emphasized)					
BIO course number	Course title	1. Explain relationships among structure, function, and process (<i>molecular, cellular, organismal, population, community, ecosystem</i>)	2. Describe the flow of genetic information	3. Describe the principles of organismal evolution, including the role of natural selection, and the origin and maintenance of biodiversity	4. Design, conduct, and interpret hypothesis-driven experiments, and implement methods (<i>lab, field, quantitative, computational</i>)	5. Locate, evaluate, synthesize, and communicate biological information from primary scientific literature and original or archived data	6. Recognize and implement ethical scientific practice, considering the impacts of science on humans and the environment and acknowledging historical and cultural biases in science
101/3	Principles of Biology I	I (MOL, CELL, ORG)	I	I	I (LAB, QUANT, COMP)	I	I
102/4	Principles of Biology II	I (ORG, POP, COM, ECO)	R	R	I (FIELD), R (LAB, QUANT, COMP)	R	R
110	Fundamentals of Biology						
181G	The Information Age: From Politics to Medicine						E
201	General Animal Physiology	I (CELL), R (CELL, ORG)		I	I (LAB, QUANT), R (LAB, QUANT)	R	
220/1	Human Anatomy & Physiology I	I (CELL), R (CELL, ORG)			I (LAB)	I	
222/3	Human Anatomy & Physiology II	R (CELL, ORG), E (ORG)			R (LAB)	R	
228	Seminar in Biological Sciences						
230G	Data Visualization				I (QUANT, COMP)	E	E
256G	Risking our Reefs	I (ORG, COM)				yes	yes
262	Introductory Ecology	R (ORG, POP, COM, ECO)		R			
263	Introductory Ecological Data Analysis				E (QUANT, COMP)		
272	Introduction to Evolution	R (MOL, ORG, POP)	R	E		R	
282G	Sapiens: the changing nature of human evolution	I,R (MOL, CELL, ORG, POP, COM, ECO)	I,R	E		E	E
286	Humans, Insects, and Disease						
290X	Evolutionary Data Analysis						
300/1	Physiology of Exercise	I (MOL), E (ORG)			I (LAB, FIELD, QUANT)	R	
302	Animal Development	R (ORG), E (MOL, CELL)	R		E (LAB)	R	
308	The Invisible Living Ocean	I (CELL), R (ORG, POP, COM, ECO)	R	E			R
310	Marine Biodiversity (Bermuda)	R (ORG, POP, COM)			R (QUANT), E (FIELD)	E	R
311	Plant Structure & Development	R (MOL), E (CELL, ORG)	E	R	E (LAB)	R	I
320	Computational Biology	I (CELL, ORG), R (MOL)	I,R		I (COMP)	I,R	
321	Plant Diversity	R (ECO), E (ORG)		E	R (LAB)		I
323	Field Botany and Taxonomy	R (COM, ECO), E (ORG)		R	R (FIELD)	R	R

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331	Parasitology	I (CELL), R (POP, ECO), E (ORG, COM)	I	I	I (FIELD), R (LAB)	R	R
332	Plant Pathology	I (CELL), E (ORG)		I	I (LAB, FIELD)		R
341	Principles of Cell Biology	E (MOL, CELL)	E			R	
345	Marine Environmental Physiology	I (ORG), R (MOL, CELL, ORG), E (CELL, MOL, ORG)	R,E	R	R (QUANT), E (LAB, QUANT)	R,E	
346	Plant Physiology	E (MOL, CELL, ORG)	R	R	E (QUANT)	E	I
350	Field Entomology and Taxonomy						
352	General Genetics	R (MOL, CELL, ORG)	E		E (QUANT)		
353	Genetics Lab	R (MOL, CELL, ORG)			E (LAB, QUANT)		
354	Invertebrate Zoology	I (MOL), R (ORG, POP, COM)	R	E		R	
355	Marine Invertebrates of Southern New England	I (ECO), E (ORG, POP, COM)		I	I (QUANT), R (LAB, FIELD)	R	R
360	Marine Biology	I (ECO), E (ORG, COM)			R LAB, FIELD), E (QUANT)	E	R
365	Biology of Algae						
366	Vertebrate Biology	R (ORG)		yes	R (FIELD)	yes	
385	Introductory Entomology	R (COM, ECO), E (ORG)		E	I (FIELD)	R	E
388	Bees and Pollination	R (COM), E (ORG)		E		R	
396	Biology and Society	R (MOL, CELL, ECO), E (ORG, POP, COM)	E	E		E	E
412	Evolution and Diversity of Fishes	I (COM), E ORG		E		R	
416	Intertidal Ecology	E (ORG, POP, COM, ECO)			I (COMP), E (FIELD, QUANT)	I	
417	Herpetology						
419	Herpetology lab						
422	Biology of Sharks	R (CELL, COM), E (ORG, POP)		E		E	
425G	Marine Biodiversity: A Larval Perspective	R (ORG, COM, ECO), E (POP)	R	E		E	I
437	Fundamentals of Molecular Biology	E (MOL, CELL)	R				
439	Big Data Analysis				E (QUANT, COMP)		
440G	How Our Genes and the Environment Shape Our Lives						
444	Insect Ecology	R (ORG, ECO), E (POP, COM)		E		R	
455	Marine Ecology	R (ORG), E (POP, COM, ECO)		R		R	R
465	Coral Reef Ecology	I (ECO), R (ORG, POP, COM), E (CELL)	I	R		R	R

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467	Animal Behavior	I (CELL, ECO), R (ORG), E (POP, COM)	R	E	I (LAB, QUANT), R (FIELD)	R	R	
469	Tropical Marine Invertebrates	I (CELL), R (POP, COM, ECO), E (ORG)		E	E (FIELD)	R		
472	Advanced Evolutionary Biology	R (MOL, CELL), E (ORG, POP)	R	E		E		
475	Reef Ecology (Bermuda)	I (CELL), E (ORG, POP, COM, ECO)		E	R (QUANT), E (FIELD)	R	I	
480	Community Ecology	E (COM)		E		E		
482G	Biology of Human Health and Disease	R (ORG), E (MOL, CELL, POP)	R	E	R (LAB, QUANT)	E	E	
485	Salt Marsh Ecology							
491/2/5	Independent Research				E (VARIOUS)	Yes		
498	Teaching Practicum				I (LAB, QUANT)	I		