

MAJOR ELECTIVES

Students must complete a **minimum of 18 credits** across this list. **At least 9 credits must be from “BZ” courses.**

*With the approval of the Biology Curriculum Committee, a maximum of 3 credits from BZ384, BZ 487, BZ 495, and BZ 498 may be applied towards a student’s major electives.

BZ 212 (4)	Animal Biology – Invertebrates	BZ 515 (3)	Physiological Ecology of Marine Vertebrates
BZ 214 (4)	Animal Biology – Vertebrates	BZ 535 (3)	Behavioral & Cognitive Ecology
BZ 223 (3)	Plant Identification	BZ 560 (3)	Teaching & Communication Science
BZ 300 (3)	Animal Behavior	BZ 570 (3)	Molecular Aspects of Plant Development
BZ 325 (4)	Plant Systematics	BZ 572 (3)	Phytoremediation (online)
BZ 329 (4)	Herpetology		
BZ 330A (3)	Mammalogy lecture		
BZ 330B (1)	Mammalogy lab (required with lecture)		
BZ 331 (4)	Developmental Plant Anatomy	ANEQ 310 (3)	Animal Reproduction
BZ 333 (4)	Introductory Mycology	ANEQ 320 (4)	Principles of Animal Nutrition
BZ 335 (3)	Ornithology	ANEQ 322 (2)	Pet Nutrition
BZ 340 (4)	Field Mammalogy	ANEQ 323 (2)	Zoo Nutrition
BZ 348 (4)	Theory of Pop. & Evol. Ecology	ANEQ 330 (3)	Principles of Animal Breeding
BZ 349 (3)	Tropical Ecology & Evolution		
BZ 360 (3)	Bioinformatics & Genomics	ANTH 370 (3)	Primates
BZ 401 (3)	Comparative Animal Physiology	ANTH 373 (3)	Human Evolution
BZ 415 (4)	Marine Biology	ANTH 374 (3)	Human Biological Variation
BZ 418 (4)	Ecology of Infectious Diseases	ANTH 470 (4)	Paleontology Field School
BZ 420 (3)	Evolutionary Medicine		
BZ 424 (3)	Principles of Systematic Zoology	BC 401 (3)	Comprehensive Biochemistry I
BZ 425 (3)	Conservation & Population Genomics	BC 403 (3)	Comprehensive Biochemistry II
BZ 430 (3)	Animal Behavior & Conservation	BC 404 (2)	Comprehensive Biochemistry Lab
BZ 433 (4)	Behavioral Genetics	BC 463 (3)	Molecular Genetics
BZ 435 (2)	Study Abroad-Honduras: Dolphin Behavior & Physiology	BC 353 (4)	Pre-Health Genetics
BZ 440 (3)	Plant Physiology		
BZ 441 (2)	Plant Physiology Lab	BMS 300 (4)	Human Physiology
BZ 449A (4)	Study Abroad-Ecuador: Ecology & Conservation-Ecuadorian Biodiversity	BMS 301 (5)	Human Gross Anatomy
BZ 450 (4)	Plant Ecology	BMS 302 (2)	Laboratory in Principles of Physiology
BZ 455 (3)	Human Heredity & Birth Defects	BMS 305 (4)	Domestic Animal Gross Anatomy
BZ 460 (4)	Genome Evolution	BMS 310 (4)	Anatomy for the Health Prof. (online)
BZ 462 (5)	Parasitology & Vector Biology	BMS 320 (2)	Virtual Laboratory in Physiology
BZ 471 (3)	Stream Biology & Ecology	BMS 325 (3)	Cellular Neurobiology
BZ 472 (1)	Stream Biology & Ecology Lab	BMS 330 (4)	Microscopic Anatomy
BZ 475 (3)	Marine Mammalogy	BMS 345 (4)	Functional Neuroanatomy
BZ 476 (3)	Genetics of Model Organisms	BMS 405 (3)	Nerve & Muscle – Toxins, Trauma, & Disease
BZ 477 (2)	Genome Editing	BMS 409 (3)	Human & Animal Reproductive Bio
BZ 478 (3)	Biology & Behavior of Cats (online)	BMS 420 (3)	Cardiopulmonary Physiology
BZ 479 (3)	Biology & Behavior of Dogs (online)	BMS 425 (3)	Introduction to Systems Neurobiology
BZ 482C (3)	Study Abroad-Mexico: Marine Biol. & Ecology	BMS 430 (3)	Endocrinology
BZ 482D (3)	Study Abroad-Kenya: Behavior & Biology of African Mammals	BMS 450 (3)	Pharmacology
BZ 492A-G	Seminar (topic dependent on instructor)	BMS 460 (3)	Essentials of Pathophysiology
BZ 496 (1)	Group Study – Biology (Honors)	BSPM 302 (2)	Applied & General Entomology
BZ 510 (3)	Zoophysiological Ecology	BSPM 303A (2)	Entomology Lab: General
		BSPM 361 (3)	Elements of Plant Pathology
		BSPM 423 (3)	Evolution & Classification of Insects
		BSPM 445 (4)	Aquatic Insects

ERHS 332 (3) Principles of Epidemiology
 ERHS 450 (3) Introduction to Radiation Biology

F 311 (3) Forest Ecology

FSHN 350 (3) Human Nutrition

FW 300 (2) Biology & Diversity of Fishes
 FW 301 (1) Ichthyology Lab
 FW 304 (3) Conservation of Marine Megafauna
 FW 400 (3) Cons. of Fish in Aquatic Ecosystems
 FW 405 (3) Fish Physiology

GEOL 342 (3) Paleontology

HES 403 (4) Physiology of Exercise

HORT 460 (3) Plant Breeding

MIP 300 (3) General Microbiology
 MIP 302 (2) General Microbiology Lab
 MIP 303 (1) General Microbiology – Honors
 Recitation
 MIP 315 (3) Human & Animal Disease
 MIP 334 (3) Food Microbiology
 MIP 335 (2) Food Microbiology Lab
 MIP 342 (4) Immunology
 MIP 343 (2) Immunology Lab
 MIP 351 (3) Medical Bacteriology
 MIP 352 (3) Medical Bacteriology Lab
 MIP 420 (4) Medical & Molecular Virology
 MIP 425 (2) Virology & Cell Culture Lab
 MIP 432 (3) Microbial Ecology
 MIP 433 (1) Microbial Ecology Lab
 MIP 443 (4) Microbial Physiology
 MIP 450 (3) Microbial Genetics

NR 370 (3) Coastal Environmental Ecology

PSY 352 (3) Learning & Memory
 PSY 454 (3) Biological Psychology

RS 331 (3) Wildland Plants & Plant Communities
 RS 351 (3) Wildland Ecosystems in a Changing
 World
 RS 478 (3) Ecological Restoration

SOCR 455(3) Soil Microbiology
 SOCR 456(1) Soil Microbiology Lab

VS 331 (4) Histology (online)
 VS 333 (4) Domestic Animal Anatomy (online)