

Matrix Planned Biology Courses For 2016 - 2017 (tentative)

Category	Autumn 2016	Winter 2017	Spring 2017
Foundation Courses	BIOL 350 (3) - Foundations in Physiology BIOL 354 (3) - Fnd in Evol & Systematics BIOL 355 (3) - Fnd in Molec Cell Biology BIOL 356 (3) - <i>Foundations in Ecology</i>	BIOL 350 (3) - Foundations in Physiology BIOL 354 (3) - Fnd in Evol & Systematics BIOL 355 (3) - Fnd in Molec Cell Biology BIOL 356 (3) - <i>Foundations in Ecology</i>	BIOL 350 (3) - Foundations in Physiology BIOL 354 (3) - Fnd in Evol & Systematics BIOL 355 (3) - Fnd in Molec Cell Biology
Natural History / Biodiversity Course *	BIOL 280 (4) - History of Life BIOL 441 (5) - <i>Trends in Land Plant Evolution</i> BIOL 440 (5) - <i>General Mycology</i>	BIOL 439 (5) - <i>Functional Morphology *</i> BIOL 434 (5) - <i>Invertebrate Zoology</i> BIOL 440 (5) - <i>General Mycology</i> BIOL 450 (5) - <i>Vertebrate Paleontology</i> BIOL 453 (5) - <i>Com Anatomy of Vertebrates *</i>	BIOL 311 (3/5) - <i>Biology of Fishes</i> BIOL 317 (5) - <i>Plant ID & Classification</i> BIOL/ESRM 331 (3) - Landscape Plant Recognition BIOL 433 (5) - <i>Marine Ecology</i> BIOL 437 (5) - <i>Herpetology</i> BIOL 440 (5) - <i>General Mycology</i> BIOL 443 (5) <i>Evolution of Mammals and their Ances.</i> BIOL 444 (5) - <i>Ornithology</i> BIOL 451 (5) - <i>Invertebrate Paleontology</i> BIOL 452 (5) - <i>Vertebrate Biology*</i> BIOL 454 (5) - <i>Entomology</i>
Molecular Cell Developmental Biology Courses	BIOL 302 (4) - <i>Lab Techniques in C&M Bio</i> BIOL 380 (3) - Biomedical Advances and Society BIOL 400 (4) - <i>Cell Biology Lab</i> BIOL 411 (4) - Developmental Biology BIOL 485 (1) - Sr. Sem MCD	BIOL 302 (4) - <i>Lab Techniques in Cellular and Molecular Bio</i> BIOL 380 (3) - Biomedical Advances and Society BIOL 401 (3) - Advanced Cell Biology BIOL 413 (4) - <i>Molec Genetics of Development</i> BIOL/GENOME 414 (5) - <i>Molecular Evolution</i> BIOL 416 (3) - Mol Genetics of Plant Develop BIOL 459 (3) - Developmental Neurobiology BIOL 485 (1) - Sr. Sem MCD	BIOL 400 (4) - <i>Cell Biology Lab</i> BIOL 402 (4) - <i>Functional Genomics</i> BIOL 405 (3) - C & M Biol of Human Disease BIOL 407 (4) - <i>new Cell Lab</i> (Title TBA) BIOL 411 (4) - Developmental Biology BIOL 415 (3) - Evolution and Development BIOL 416 (3) - Mol Genetics of Plant Develop BIOL 455 (3) - Immunology, Virology, and Pathology BIOL 469 (3) - Evolution and Medicine BIOL 485 (1) - Sr. Sem MCD
Physiology Courses *	BIOL 360 (4) - <i>Cellular Anatomy</i> BIOL 427 (5) - <i>Biomechanics</i> BIOL 467 (3) - Comparative Animal Physiology BIOL 497 (3) - Neurophysiology BIOL 497 (3) - Immunology, Virology, and Pathology	BIOL/PSYCH 408 (4) - Mechanisms of Animal Behavior BIOL 421 (3) - Ecological and Evolutionary Physiology of Animals BIOL/ESRM 424/478 (5) - <i>Plant Eco-Physiology</i> BIOL 425 (5) - <i>Plant Physiology and Development</i> BIOL 457 (3) - Chemical Communication BIOL 460 (3) - Mammalian Physiology BIOL 465 (3) - Comparative Endocrinology BIOL 466 (3) - Pathobio of Emerging Diseases BIOL 497 (3) - Neurophysiology	BIOL 418 (4) - Biological Clocks and Rhythms BIOL 422 (3) - Behavior of Plants BIOL 428 (5) - <i>Sensory Neurophysiology and Ecology</i> BIOL 456 (3) - Poverty and Children BIOL 461 (3) - Neurobiology BIOL 462 (3) - Adv Animal Physiology BIOL 463 (3) - <i>Adv Animal Physiology Lab</i> BIOL 467 (3) - Comparative Animal Physiology BIOL 488 (2) - Sr Sem in Physiology
Ecology, Evolution, Systematics, and Conservation Courses	BIOL 315 (3) - Biol. Impacts of Climate Change BIOL 420 (4) - Game Theory BIOL 423 (3) - Marine Ecological Processes BIOL 438 (5) - <i>Quant. Approaches to Paleo</i> BIOL 447 (5) - <i>Greening the Earth</i> BIOL 472 (5) - <i>Community Ecology</i> BIOL/FISH 473/474 (3/2) - Limnology + Lab BIOL 483 (1) - Sr. Sem Paleobiology	BIOL 423 (3) - Marine Ecological Processes BIOL/FISH/ENVIR 478 (3) - Topics in Sustainable Fisheries BIOL 483 (1) - Sr. Sem Paleobiology BIOL 497 (4) - Dispersion and Invasion	BIOL 476 (5) - <i>Conservation Biology</i> BIOL 483 (1) - Sr. Sem Paleobiology BIOL 489 (2) - Sr. Sem Plant Biology
Counts for all degrees		BIOL 419 (3) - Data Science for Biologists	BIOL 492 (3) - Teaching Biology Inclus. to Diverse Aud

4-Nov-16

Italicized courses indicate a lab class

* and + - may count for only one area requirement - Natural history or adv electives

SELECTED ADDITIONAL COURSES FOR 2016-2017 ¹

Category	Autumn 2016	Winter 2017	Spring 2017
Major Requirements	BIOST 310 (4) - Biostats for the Health Sciences FISH/BIOL 340 (5) - Genetics& Molecular Ecology GENOME 361 (3) - Fundamentals of Genetics GENOME 371 (5) - Intro Genetics Q SCI 482 (5) - Stat Infer in Appl Research	BIOST 310 (4) - Biostats for the Health Sciences GENOME 361 (3) - Fundamentals of Genetics Q SCI 482 (5) - Stat Infer in Appl Research	BIOST 310 (4) - Biostats for the Health Sciences GENOME 361 (3) - Fundamentals of Genetics
Natural Hist/Biodiversity	ESRM 452 (3) - <i>Field Ornithology</i> ESRM 456 (3) - Biol & Cons of Birds FISH 450 (3) - Salmonid Beh & Life Hist		ESRM 435/436 (3/2) - Forest Entomology / Lab FISH 475 (5) - <i>Marine Mammalogy</i>
General Biology Electives	BH 402 (5) - Ethical Theory GWSS/ PSYCH 357 (5) - Psychobiology of Women MICROM 301/302L (3/2) - <i>Intro to Microbio/Lab</i>	PHG 301 (3) - Public Health Genetics	BH 420 (3) -Philosophical Problems in Bioethics BH 421 (5) - History of Eugenics GWSS/ PSYCH 357 (5) - Psychobiology of Women MICROM 301/302L (3/2) - <i>Intro to Microbio/Lab</i>
Physiology Electives	PSYCH 421 (5) - Neural Basis of Behavior FISH 441 (3/5L) - <i>Environmental Physiology</i>	B STR 301 (4) - General Anatomy (<i>restrictions</i>) FISH 324 (3/5L) - <i>Aquatic Physiology and Repro</i>	NUTR 405 (3) - Phys Activity in Health & Disease NUTR 406 (3) - Sports Nutrition
Ecology, Evolution, and Conservation Electives	ESRM 250 (5) - Intro to GIS ESRM 350 (5) - Wildlife Biology & Cons. ESRM/ENVIR 362 (5) - Intro to Rest Ecol ESRM 441 (5) - Landscape Ecology ESRM 455 (1) - Wildlife Sem GEOG 360 (5) - Principles of GIS Mapping PSYCH 300 (5) - Animal Behavior	ESRM 400 (3) - Natural Resource Conflict Mgmt ESRM 430 (3) - Hyperspatial Remote Sensing ESRM 450 (5) - Wildlife Ecology & Cons. ESRM 455 (1) - Wildlife Sem ESRM 457 (3/5) - Fish and Wildlife Toxicology ESRM 458 (5) - Mgmt of Thrt, Endgd, Sens Sp ESRM 470 (5) - Natural Res Policy & Planning FISH 444 (5) - Conservation Genetics FISH 464- (4) Arctic Vertebrate Ecology GEOG 462 (5) - Coastal GIS PSYCH 300 (5) - Animal Behavior	ESRM 250 (5) - Intro to GIS ESRM 455 (1) - Wildlife Sem ESRM 459 (3) -Wildlife Cons. in NW Ecosystems GEOG 360 (5) - Principles of GIS Mapping PSYCH 419 (5) - Behavioral Stds of Zoo Animals
Plant Biology	ESRM 325 (3) - Environmental App of Plants ESRM 415 (5) - Plant Invasions		ESRM 411 (3) - Plant Propagation: Princ. & Practice ESRM 412 (3) - Native Plant Production
Molecular, Cellular, Developmental Electives	BIOC 405 (3) - Survey in Biochemistry BIOC 440 (4) - Biochemistry BIOC 446L (4) - <i>Biochemistry Lab</i> GENOME 372 (5) - Genomics and Proteomics GENOME 453 (3) - Genetics of the Evo Process IMMUNO 441 (4) - Intro to Immunology MICROM 402L (3) - <i>Fund of Gen Micro Lab</i> MICROM 410 (3) - Fund of Gen Micro	BIOC 406 (3) - Survey in Biochemistry BIOC 441 (4) - Biochemistry GENOME 465 (4) - Adv Human Genetics GENOME 466 (4) - Cancer Genetics MICROM 431L (3) - <i>Prok. Recomb DNA Tech</i> MICROM 442 (3) - Medical Bacteriology MICROM 450 (3) - Molecular Bio of Viruses	BIOC 442 (4) - Biochemistry BIOC 446L (4) - <i>Biochemistry Lab</i> GENOME 373 (5) - Genome Informatics GENOME 475 (3) - Debates in Genetics MICROM 402L (3) - <i>Fund of Gen Micro Lab</i> MICROM 412 (3) - Prokaryotic Diversity MICROM 445 (3) - Medical Virology MICROM 461 (3) - Med. Mycology & Parasitology

¹ **CAUTION** - Not all courses here have been approved for all specific degree options. It is the student's responsibility to determine if a course has been approved, if not then a petition must be submitted. Please refer to an advisor for further clarification.