

Matrix Planned Biology Courses For 2017 - 2018 (tentative)

Category	Autumn 2017	Winter 2018	Spring 2018
Foundation Courses	BIOL 350 (3) - Foundations in Physiology BIOL 354 (3) - Foundations in Evol & Systematics BIOL 355 (3) - Foundations in Molec Cell Biology <u>BIOL 356 (3) - Foundations in Ecology</u>	BIOL 350 (3) - Foundations in Physiology BIOL 354 (3) - Foundations in Evol & Systematics BIOL 355 (3) - Foundations in Molec Cell Biology <u>BIOL 356 (3) - Foundations in Ecology</u>	BIOL 350 (3) - Foundations in Physiology BIOL 354 (3) - Foundations in Evol & Systematics BIOL 355 (3) - Foundations in Molec Cell Biology
Natural History / Biodiversity Course *	BIOL 280 (4) - History of Life <u>BIOL 438 (5) - Quant. Approaches to Paleobio</u> <u>BIOL 441 (5) - Trends in Land Plant Evolution</u> <u>BIOL 453 (5) - Comp Anatomy of Vertebrates *</u>	<u>BIOL 397 (5) - Specimen Preparation</u> <u>BIOL 434 (5) - Invertebrate Zoology</u> <u>BIOL 439 (5) - Functional Morphology*</u> <u>BIOL 440 (5) - General Mycology</u> <u>BIOL 453 (5) - Comp Anatomy of Vertebrates *</u>	<u>BIOL 311 (3/5) - Biology of Fishes</u> BIOL 317 (5) - Plant ID & Classification BIOL/ESRM 331 (3) - Landscape Plant Recog. BIOL 433 (5) - <u>Marine Ecology</u> <u>BIOL 440 (5) - General Mycology</u> <u>BIOL 450 (5) - Vertebrate Palontology</u> <u>BIOL 451 (5) - Invertebrate Palontology</u>
Molecular Cell Developmental Biology Courses	BIOL 401 (3) - Advanced Cell Biology BIOL 411 (4) - Developmental Biology BIOL 431 (1) - Cannabinoids, Plant and Human BIOL 455 (4) - Human Immunology and Pathology BIOL 485 (2) - Senior Seminars in MCD	<u>BIOL 302 (4) - Lab Techniques in Cell& Molec Bio</u> BIOL 380 (3) - Biomedical Advances and Society <u>BIOL 400 (4)- Cell Biology Lab</u> BIOL 401 (3) - Advanced Cell Biology <u>BIOL 407 (4) - Molec Cell Biol of Neural Stem Cells</u> <u>BIOL/GENOME 414 (5) - Molecular Evolution</u> BIOL 416 (3) - Molecular Genetics of Plant Develop BIOL 459 (3) - Developmental Neurobiology BIOL 485 (1-2) - Senior Seminars in MCD	<u>BIOL 302 (4) - Lab Techniques in Cell& Molec Bio</u> <u>BIOL 400 (4) - Cell Biology Lab</u> <u>BIOL 402 (4) - Functional Genomics</u> BIOL 405 (3) - Cell & Molec Biol of Human Disease BIOL 411 (4) - Developmental Biology BIOL 416 (3) - Molecular Genetics of Plant Develop BIOL 455 (4) - Human Immunology and Pathology BIOL 485 (1-2) - Senior Seminars in MCD <u>BIOL 496 (5) - Molecular Biology of Plant Develop</u>
Physiology Courses *	<u>BIOL 427 (5) - Biomechanics</u> <u>BIOL 453 (5) - Comp Anatomy of Vertebrates *</u> BIOL 465 (3) - Comparative Endocrinology BIOL 466 (3) - Pathobio of Emerging Diseases BIOL 468 (3) - Medical Physiology	BIOL 404 (3) - Animal Physiology: Cellular Aspect <u>BIOL/ESRM 424/478 (5) - Plant Eco-Physiology</u> BIOL/PSYCH 408 (5) - Mech. of Animal Behavior <u>BIOL 425 (5)- Plant Physiology and Development</u> <u>BIOL 439 (5) - Functional Morphology *</u> <u>BIOL 453 (5) - Comp Anatomy of Vertebrates *</u> BIOL 457 (3) - Chemical Communication BIOL 460 (3) - Mammalian Physiology BIOL 466 (3) - Pathobiology of Emerging Diseases BIOL 488 (2) - Senior Seminar in Physiology	BIOL 417 (4) - Reproductive Physiology BIOL 418 (4) - Biological Clocks and Rhythms BIOL 422 (3) - Behavior of Plants BIOL 461 (3) - Neurobiology BIOL 462 (3) -Adv Animal Physiology <u>BIOL 463 (3) -Adv Animal Physiology Lab</u> BIOL 467 (3) - Comparative Animal Physiology
Ecology, Evolution, Systematics, and Conservation Courses	BIOL/ANTH 385/355 (3) - Evolutionary Med <u>BIOL 447 (5) - Greening the Earth</u> <u>BIOL 472 (5) - Community Ecology</u> <u>BIOL/FISH 473/474 (3/2) - Limnology & Lab</u> BIOL 483 (1) - Senior Seminar in Paleobiology	BIOL 423 (3) - Marine Ecological Processes <u>BIOL 481 (5) - Experimental Ecology and Evolution</u> BIOL 483 (1) - Senior Seminar in Paleobiology BIOL 486 (2) - Senior Seminar in Ecology	BIOL 315 (3) - Biol. Impacts of Climate Change BIOL 433 (5) - Marine Ecology BIOL 470 (4) - Biogeography <u>BIOL 480 (4) - Field Ecology</u> BIOL 483 (1) - Senior Seminar in Paleobiology <u>BIOL 483 (4) - Agroecology</u>
Counts for all degrees	BIOL 396 - Peer Facilitation BIOL 399 - Internship	BIOL 396 (1-4) - Peer Facilitation BIOL 399 (vary) - Internship BIOL 419 (3) - Data Science for Biologists	BIOL 305 (3) - Video Storytelling BIOL 396 (1-4) - Peer Facilitation BIOL 399 (vary) - Internship BIOL 492 (3) - Teaching Biology Inclusively
Special Topics	BIOL 490 (2) - Senior Seminar w/Ammirati	BIOL 494 (4) - Controversies in Biology	

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Underlined courses indicate a lab class

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

Selected Additional Courses For 2017 - 2018¹ (tentative)

Category	Autumn 2017	Winter 2018	Spring 2018
Genetics and Mathematics	BIOST 310 (4) - Biostats for the Health Sciences FISH/BIOL 340 (5) - Genetics & Molecular Ecol GENOME 361 (3) - Fundamentals of Genetics GENOME 371 (5) - Intro Genetics Q SCI 291 (5) - Calculus for Biologists I 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 291 (5) - Calculus for Biologists Q SCI 292 (5) - Calculus for Biologists II 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 292 (5) - Calculus for Biologists II
Natural History / Biodiversity Course	<u>ESRM 452</u> (3) - <u>Field Ornithology</u> ESRM 456 (3) - Biol & Cons of Birds FISH 450 (3) - Salmonid Beh & Life Hist		ESRM 435/436 (3/2) - Insect Ecology & <u>Lab</u> <u>FISH 475</u> (5) - <u>Marine Mammalogy</u>
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>
Molecular Cell Developmental Biology Courses	BIOC 405 (3) - Survey in Biochemistry BIOC 440 (4) - Biochemistry <u>BIOC 446L</u> (4) - <u>Biochemistry Lab</u> GENOME 372 (5) - Genomics and Proteomics GENOME 453 (3) - Genetics of the Evo Process IMMUNO 441 (4) - Intro to Immunology <u>MICROM 402L</u> (3) - <u>Fund of Gen Micro Lab</u> 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 <u>MICROM 431L</u> (3) - <u>Prok. Recomb DNA Tech</u> MICROM 442 (3) - Medical Bacteriology MICROM 450 (3) - Molecular Bio of Viruses	BIOC 442 (4) - Biochemistry <u>BIOC 446L</u> (4) - <u>Biochemistry Lab</u> GENOME 373 (5) - Genome Informatics GENOME 475 (3) - Debates in Genetics <u>MICROM 402L</u> (3) - <u>Fund of Gen Micro Lab</u> MICROM 412 (3) - Prokaryotic Diversity MICROM 445 (3) - Medical Virology MICROM 461 (3) - Med. Mycology & Parasitology
Physiology Courses	PSYCH 421 (5) - Neural Basis of Behavior <u>FISH 441</u> (3/5L) - <u>Environmental Physiology</u>	<u>FISH 324</u> (3/5L) - <u>Aquatic Physiology and Repro</u>	NUTR 405 (3) - Phys Activity in Health & Disease NUTR 406 (3) - Sports Nutrition
Ecology, Evolution, Systematics, and Conservation Courses	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 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

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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.