

Matrix Planned Biology Courses For 2018 - 2019 (tentative)

Category	Autumn 2018	Winter 2019	Spring 2019
Foundation Courses	<p>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></p>	<p>BIOL 350 (3) - Foundations in Physiology BIOL 355 (3) - Foundations in Molec Cell Biology <u>BIOL 356 (3) - Foundations in Ecology</u></p>	<p>BIOL 350 (3) - Foundations in Physiology BIOL 355 (3) - Foundations in Molec Cell Biology</p>
Natural History / Biodiversity Course *	<p><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></p>	<p><u>BIOL 311 (3/5) - Biology of Fishes</u> <u>BIOL 434 (5) - Invertebrate Zoology</u> <u>BIOL 440 (5) - General Mycology</u> <u>BIOL 453 (5) - Comp Anatomy of Vertebrates *</u></p>	<p><u>BIOL 317 (5) - Plant ID & Classification</u> <u>BIOL 434 (5) - Invertebrate Zoology</u> <u>BIOL 437 (5) - Herpetology</u> <u>BIOL 440 (5) - General Mycology</u> <u>BIOL 451 (5) - Invertebrate Paleontology</u> <u>BIOL 452 (5) - Vertebrate Biology *</u></p>
Molecular Cell Developmental Biology Courses	<p><u>BIOL 302 (4) - Lab Techniques in Cell& Molec Bio</u> <u>BIOL 400 (4) - Experiments in Molecular Biology</u> 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</p>	<p><u>BIOL 302 (4) - Lab Techniques in Cell& Molec Bio</u> BIOL 401 (3) - Advanced Cell Biology <u>BIOL 413 (4) - Molec Genetics of Development</u> BIOL 459 (3) - Developmental Neurobiology BIOL 485 (1-2) - Senior Seminars in MCD</p>	<p><u>BIOL 402 (4) - Functional Genomics</u> BIOL 405 (3) - Cell & Molec Biol of Human Disease BIOL 410 (2) - Current Topics in MCB Research BIOL 411 (4) - Developmental Biology BIOL 416 (3) - Development of Plant Genetics BIOL 411 (4) - Developmental Biology BIOL 485 (1-2) - Senior Seminars in MCD</p>
Physiology Courses *	<p><u>BIOL 310 (5) - Survey of Human Anatomy</u> BIOL 404 (3) - Animal Physiology: Cell Aspects <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</p>	<p><u>BIOL/ESRM 408 (4) - Neuroethology</u> <u>BIOL/ESRM 424/478 (5) - Plant Eco-Physiology</u> BIOL 425 (3) - Plant Physiology and Development <u>BIOL 453 (5) - Comp Anatomy of Vertebrates *</u> BIOL 460 (3) - Mammalian Physiology BIOL 461 (3) - Neurobiology BIOL 466 (3) - Pathobiology of Emerging Diseases</p>	<p><u>BIOL 360 (4) - Cell Anatomy</u> BIOL 418 (4) - Biological Clocks and Rhythms BIOL 422 (3) - Behavior of Plants <u>BIOL 452 (5) - Vertebrate Biology *</u> BIOL 462 (3) - Adv Animal Physiology <u>BIOL 463 (3) - Adv Animal Physiology Lab</u> BIOL 467 (3) - Comparative Animal Physiology</p>
Ecology, Evolution, Systematics, and Conservation Courses	<p>BIOL 315 (3) - Biol. Impacts of Climate Change BIOL 423 (3) - Marine Ecological Processes <u>BIOL 433 (5) - Marine Ecology</u> <u>BIOL/FISH 473/474 (3/2) - Limnology & Lab</u> BIOL 483 (1) - Senior Seminar in Paleobiology</p>	<p>BIOL 423 (3) - Marine Ecological Processes BIOL 483 (1) - Senior Seminar in Paleobiology BIOL 486 (2) - Senior Seminar in Ecology</p>	<p>BIOL 315 (3) - Biol. Impacts of Climate Change <u>BIOL 472 (5) - Community Ecology</u> <u>BIOL 480 (4) - Field Ecology</u> BIOL 483 (1) - Senior Seminar in Paleobiology</p>
Counts for all degrees	<p>BIOL 396 (1-4) - Peer Facilitation BIOL 399 (vary) - Internship</p>	<p>BIOL 396 (1-4) - Peer Facilitation BIOL 399 (vary) - Internship BIOL 419 (3) - Data Science for Biologists</p>	<p>BIOL 305 (3) - Video Storytelling BIOL 396 (1-4) - Peer Facilitation BIOL 399 (vary) - Internship BIOL 492 (3) - Teaching Biology Inclusively</p>
Special Topics	<p>BIOL 490 (2) - Senior Seminar w/Ammirati</p>	<p>BIOL 489 (2) - Plant Seminar</p>	

27-Jun-18

Underlined courses indicate a lab class

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

Selected Additional Courses For 2018 - 2019¹ (tentative)

Category	Autumn 2018	Winter 2019	Spring 2019
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 FISH/BIOL 340 (5) - Genetics & Molecular Ecol GENOME 361 (3) - Fundamentals of Genetics Q SCI 292 (5) - Calculus for Biologists II
Natural History / Biodiversity Course	<u>ESRM 452 (3) - Field Ornithology</u> ESRM 456 (3) - Biol & Cons of Birds FISH 450 (3) - Salmonid Beh & Life Hist		ESRM 435 (3) - Insect Ecology <u>FISH 475 (5) - 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>	BH 444 (3) - Ethical Implications of Emerging Biotech 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> PHG 301 (3) - Public Health Genetics
Molecular Cell Developmental Biology Courses	BIOC 405 (3) - Survey in Biochemistry BIOC 440 (4) - Biochemistry <u>BIOC 446L (4) - Biochemistry Lab</u> GENOME 372 (5) - Genomics and Proteomics IMMUNO 441 (4) - Intro to Immunology <u>MICROM 402L (3) - 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 (3) - Prok. Recomb DNA Tech</u> MICROM 442 (3) - Medical Bacteriology MICROM 450 (3) - Molecular Bio of Viruses	BIOC 442 (4) - Biochemistry <u>BIOC 446L (4) - Biochemistry Lab</u> GENOME 373 (5) - Genome Informatics GENOME 475 (3) - Debates in Genetics <u>MICROM 402L (3) - Fund of Gen Micro Lab</u> MICROM 412 (3) - Prokaryotic Diversity MICROM 445 (3) - Medical Virology MICROM 461 (3) - Med. Mycology & Parasitology
Physiology Courses		<u>FISH 324 (3/5L) - Aquatic Physiology and Repro</u> NUTR 406 (3) - Sports Nutrition	<u>FISH 441 (3/5L) - Environmental Physiology</u> NUTR 405 (3) - Phys Activity in Health & Disease
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 ESRM 465 (3) - Econ of Conservation ESRM 470 (5) - Natural Res Policy & Planning FISH 406 (5) - Parasite Ecology 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 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) - Terrestrial Invasion Ecology		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.