

## *Matrix Planned Biology Courses For 2021 - 2022 (Subject to Change)*

Category	Autumn 2021	Winter 2022	Spring 2022
<b>Foundation Courses</b>	<b>BIOL 350 (3) - Foundations in Physiology</b> <b>BIOL 354 (3) - Foundations in Evol &amp; Systematics</b> <b>BIOL 355 (3) - Foundations in Molec Cell Biology</b> <u><b>BIOL 356 (3) - Foundations in Ecology</b></u>	<b>BIOL 350 (3) - Foundations in Physiology</b> <b>BIOL 354 (3) - Foundations in Evol &amp; Systematics</b> <b>BIOL 355 (3) - Foundations in Molec Cell Biology</b>	<b>BIOL 350 (3) - Foundations in Physiology</b> <b>BIOL 355 (3) - Foundations in Molec Cell Biology</b>
<b>Natural History / Biodiversity Course *</b>	<u><b>BIOL 280 (4) - History of Life</b></u> <u><b>BIOL 311 (5) - Biology of Fishes</b></u> <u><b>BIOL 441 (5) - Trends in Land Plant Evolution</b></u> <u><b>BIOL 442 (5) - Mushrooms and Related Fungi</b></u> <u><b>BIOL 443 (5) - Evolution of Mammals &amp; Ancest</b></u> <u><b>BIOL 448 (5) - Mammalogy</b></u>	<u><b>BIOL 434 (5) - Invertebrate Zoology</b></u> <u><b>BIOL 451 (5) - Invertebrate Paleontology</b></u> <u><b>BIOL 453 (5) - Comp Anatomy of Vertebrates *</b></u>	<b>BIOL 331 (3) - Landscape Plant Recognition</b> <u><b>BIOL 434 (5) - Invertebrate Zoology</b></u> <u><b>BIOL 440 (5) - General Mycology</b></u> <u><b>BIOL 444 (5) - Orinithology</b></u> <u><b>BIOL 446 (5) - Plant ID &amp; Classification</b></u> <u><b>BIOL 452 (5) - Vertebrate Biology*</b></u>
<b>Molecular Cell Developmental Biology Courses</b>	<u><b>BIOL 400 (4) - Experiments in Molecular Bio.</b></u> <b>BIOL 401 (3) - Advanced Cell Biology</b> <b>BIOL 411 (4) - Developmental Biology</b> <b>BIOL 416 (3) - Development of Plant Genetics</b>	<u><b>BIOL 302 (4) - Lab Techniques in Cell&amp; Molec Bio</b></u> <b>BIOL 411 (4) - Developmental Biology</b> <u><b>BIOL 413 (4) - Molecular Genetics of Development</b></u> <b>BIOL 431 (1) - Cannabinoids, Plant and Human</b> <b>BIOL 459 (3) - Developmental Neurobiology</b> <b>BIOL 464 (2) - Molecular Mechanisms of Cancer Seminar</b> <b>BIOL 485 (2) - Senior Seminar in MCD</b> <u><b>BIOL 495 (3) - Biology of Fermentation</b></u>	<u><b>BIOL 302 (4) - Lab Techniques in Cell&amp; Molec Bio</b></u> <u><b>BIOL 400 (4) - Experiments in Molecular Bio.</b></u> <b>BIOL 405 (3) - Cell &amp; Molec Biol of Human Disease</b> <b>BIOL 410 (2) - Current Topics in Molec. &amp; Cell Biol</b> <b>BIOL 416 (3) - Molec Genetics of Plant Dev</b> <b>BIOL 485 (2) - Senior seminar in MCD</b>
<b>Physiology Courses *</b>	<u><b>BIOL 310 (5) -Survey of Human Anatomy</b></u> <b>BIOL 417 (4) - Reproductive Physio</b> <u><b>BIOL 421 (4) - Eco &amp; Evo Physio of Animals</b></u> <u><b>BIOL 427 (5) - Biomechanics</b></u> <u><b>BIOL 428 (4) - Sensory Neurophys and Ecol</b></u> <b>BIOL 454 (3) - Somatosensation (currently 497C)</b> <b>BIOL 466 (3) - Pathobiology of Emergining Diseases</b> <b>BIOL 488 (2) - Senior Seminar in Physiology</b>	<u><b>BIOL/ESRM 424/478 (5) - Plant Eco-Physiology</b></u> <u><b>BIOL 425 (5) - Plant Physiology and Development</b></u> <b>BIOL 426 (3) - Comparative Immunology</b> <u><b>BIOL 453 (5) - Comp Anatomy of Vertebrates *</b></u> <b>BIOL 457 (3) - Chemical Communication</b> <b>BIOL 460 (3) - Mammalian Physiology</b>	<u><b>BIOL 310 (5) -Survey of Human Anatomy</b></u> <b>BIOL 418 (4) - Circadian Rhythms</b> <b>BIOL 422 (3) - Behavior of Plants</b> <u><b>BIOL 452 (5) - Vertebrate Biology*</b></u> <b>BIOL 462 (3) - Animal Physiology</b> <b>BIOL 463 (3) - Animal Physiology Lab</b> <b>BIOL 467 (3) - Comparative Animal Physiology</b>
<b>Ecology, Evolution, Systematics, and Conservation Courses</b>	<b>BIOL 315 (3) - Biol. Impacts of Climate Change</b>  <b>BIOL 406 (3) - Conservation of Large Vertebrates</b> <u><b>BIOL/FISH 473/474 (3/2) - Limnology &amp; Lab</b></u> <b>BIOL 476 (4) - Conservation Biology</b> <u><b>BIOL 481 (5) - Experimental Evolutionary Ecology</b></u>	<b>BIOL 408 (4) - Neuroethology (undecided)</b> <b>BIOL 423 (3) - Marine Ecological Processes</b> <b>BIOL 478 (3) - Topics in Sustainable Fisheries</b> <b>BIOL 483 (1) - Senior Seminar in Paleobiology</b> <b>BIOL 490 (1) - Senior Sem in Fungal Symbiosis</b> <b>BIOL 490 (1) - Senior Sem in Fungal Symbiosis</b>	<b>BIOL 315 (3) - Biol. Impacts of Climate Change</b> <u><b>BIOL 468 (4) - Ecology of Animal Movement</b></u> <small>(may be listed as 497)</small> <b>BIOL 469 (3) - Evolution and Medicine</b> <u><b>BIOL 472 (5) - Community Ecology</b></u> <u><b>BIOL 480 (4) - Field Ecology</b></u> <b>BIOL 486 (2) - Senior Seminar in Ecology</b> <b>BIOL 489 (2) - Senior Sem in Plant Biology</b>
<b>Counts for all degrees</b>			<b>BIOL 305 (3) - Video Storytelling</b> <b>BIOL 359 (3) - Quantitative Biology</b> <b>BIOL 492 (3) - Teaching Biology Inclusively</b>
<b>Special Topics</b> <small>Interv for how classes will apply</small>	<small>See</small> <b>BIOL 497 (2) - Science Policy - all options</b>	<b>BIOL 497 (2) - Biology by the numbers - all options</b>	<b>BIOL 497 (2) - Uncommon Leaders - all options</b> <b>BIOL 497 (2) - Cannabinoids sem- all options</b>

8-Dec-21

Underlined courses indicate a lab class

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

## Selected Additional Courses For 2021 - 2022 <sup>1</sup> (Subject to Change)

Category	Autumn 2021	Winter 2022	Spring 2022
<b>Genetics</b>	FISH/BIOL 340 (5) - Genetics & Molecular Ecol GENOME 361 (3) - Fundamentals of Genetics GENOME 371 (5) - Intro Genetics	GENOME 361 (3) - Fundamentals of Genetics	GENOME 361 (3) - Fundamentals of Genetics
<b>Math and Stats</b>	Q SCI 291 (5) - Calculus for Biologists I Q SCI 482 (5) - Stat Infer in Appl Research	Q SCI 291 (5) - Calculus for Biologists Q SCI 292 (5) - Calculus for Biologists II Q SCI 482 (5) - Stat Infer in Appl Research	Q SCI 292 (5) - Calculus for Biologists II
<b>Natural History / Biodiversity Course</b>	ESRM 452 (3) - Field Ornithology ESRM 456 (3) - Biol & Cons of Birds FISH 450 (3) - Salmonid Beh & Life Hist		ESRM 435 (3) - Insect Ecology
<b>General Biology Electives</b>	BH 402 (5) - Ethical Theory MICROM 301/302L (3/2) - Intro to Microbio/Lab	BH 444 (3) - Ethical Implications of Emerging Biotech BH 488 (3) - Global Bioethics	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) - Intro to Microbio/Lab
<b>Molecular Cell Developmental Biology Courses</b>	BIOC 405 (3) - Survey in Biochemistry BIOC 440 (4) - Biochemistry BIOC 446L (4) - Biochemistry Lab GENOME 372 (5) - Genomics and Proteomics IMMUNO 441 (4) - Intro to Immunology MICROM 402L (3) - Fund of Gen Micro Lab MICROM 410 (3) - Fund of Gen Micro	BIOC 405 (3) - Survey in Biochemistry BIOC 406 (3) - Survey in Biochemistry BIOC 441 (4) - Biochemistry GENOME 465 (4) - Adv Human Genetics GENOME 466 (4) - Cancer Genetics MICROM 411L (4) - Bacterial Genetics MICROM 431L (3) - Prok. Recomb DNA Tech MICROM 442 (3) - Medical Bacteriology MICROM 450 (3) - Molec. Biol of Viruses	BIOC 406 (3) - Survey in Biochemistry BIOC 442 (4) - Biochemistry BIOC 446L (4) - Biochemistry Lab GENOME 373 (5) - Genome Informatics GENOME 475 (3) - Debates in Genetics MICROM 402L (3) - Fund of Gen Micro Lab MICROM 412 (3) - Prokaryotic Diversity MICROM 445 (3) - Medical Virology MICROM 460 (3) - Med. Mycology & Parasitology
<b>Physiology Courses</b>	NUTR 405 (3) - Phys Activity in Health and Disease	FISH 324 (3/5L) - Aquatic Physiology and Repro	NUTR 406 (3) - Sports Nutrition
<b>Ecology, Evolution, Systematics, and Conservation Courses</b>	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 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 250 (5) - Intro to GIS ESRM 400 (3) - Natural Resource Conflict Mgmt ESRM 432 (4) - Adv. Remote Sensing ESRM 450 (5) - Wildlife Ecology & Cons.  ESRM 458 (5) - Mgmt of Thrt, Endgd, Sens Sp FISH 427 (5) - Tropical Marine Biology	ESRM 250 (5) - Intro to GIS ESRM 459 (3) -Wildlife Cons. in NW Ecosystems FISH 330 (5) - Climate Change Imp. on Marine Systems FISH 444 (5) -Conservation Genetics GEOG 360 (5) - Principles of GIS Mapping
<b>Plant Biology</b>	ESRM 325 (3) - Environmental Appl. Of Plants	ESRM 422 (2) - Plant Microbiology seminar	ESRM 411 (3) - Plant Propagation: Princ. & Practice ESRM 412 (3) - Native Plant Production

27-Oct-21

<sup>1</sup> 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.

Some Departments will restrict their classes to their majors during Period 1, nonmajors may have to wait to Registration Period 2-found in the notes of the class