

Matrix Planned Biology Courses For 2020 - 2021 (tentative)

Category	Autumn 2020	Winter 2021	Spring 2021
Foundation Courses	<p><u>BIOL 350</u> (3) - Foundations in Physiology</p> <p><u>BIOL 355</u> (3) - Foundations in Molec Cell Biology</p> <p><u>BIOL 356</u> (3) - Foundations in Ecology</p>	<p><u>BIOL 350</u> (3) - Foundations in Physiology</p> <p><u>BIOL 354</u> (3) - Foundations in Evol & Systematics</p> <p><u>BIOL 355</u> (3) - Foundations in Molec Cell Biology</p>	<p><u>BIOL 350</u> (3) - Foundations in Physiology</p> <p><u>BIOL 354</u> (3) - Foundations in Evol & Systematics</p> <p><u>BIOL 355</u> (3) - Foundations in Molec Cell Biology</p>
Natural History / Biodiversity Course *	<p><u>BIOL 311</u> (5) - Biology of Fishes</p> <p><u>BIOL 434</u> (5) - Invertebrate Zoology</p> <p><u>BIOL 438</u> (5) - Quant. Approaches to Paleobio</p> <p><u>BIOL 441</u> (5) - Trends in Land Plant Evolution</p> <p><u>BIOL 443</u> (5) - Evolution of Mammals & Ancest</p>	<p><u>BIOL 434</u> (5) - Invertebrate Zoology</p> <p><u>BIOL 448</u> (5) - Mammalogy</p> <p><u>BIOL 450</u> (5) - Vertebrate Paleontology</p> <p><u>BIOL 451</u> (5) - Invertebrate Paleontology</p> <p><u>BIOL 453</u> (5) - Comp Anatomy of Vertebrates *</p>	<p><u>BIOL 317</u> (5) - Plant ID & Classification</p> <p><u>BIOL 331</u> (3) - Landscape Plant Recognition</p> <p><u>BIOL 433</u> (5) - Marine Ecology</p> <p><u>BIOL 440</u> (5) - General Mycology</p> <p><u>BIOL 443</u> (5) - Evolution of Mammals & Ancest</p> <p><u>BIOL 444</u> (5) - Orinthology</p> <p><u>BIOL 452</u> (5) - Vertebrate Biology*</p>
Molecular Cell Developmental Biology Courses	<p><u>BIOL 302</u> (4) - Lab Techniques in Cell& Molec Bio</p> <p><u>BIOL 400</u> (4) - Experiments in Molecular Bio.</p> <p><u>BIOL 401</u> (3) - Advanced Cell Biology</p> <p><u>BIOL 411</u> (4) - Developmental Biology</p> <p><u>BIOL 416</u> (3) - Development of Plant Genetics</p> <p><u>BIOL 431</u> (1) - Cannabinoids, Plant and Human</p>	<p><u>BIOL 302</u> (4) - Lab Techniques in Cell& Molec Bio</p> <p><u>BIOL 401</u> (3) - Advanced Cell Biology</p> <p><u>BIOL 405</u> (3) - Cell & Molec Biol of Human Disease</p> <p><u>BIOL 407</u> (4) - Molecular Cell Biology of Neural Stem Cells</p> <p><u>BIOL 415</u> (3) - Evolution and Development</p> <p><u>BIOL 431</u> (1) - Cannabinoids, Plant and Human</p> <p><u>BIOL 459</u> (3) - Developmental Neurobiology</p> <p><u>BIOL 464</u> (2) - Molecular Mechanisms of Cancer Seminar</p>	<p><u>BIOL 302</u> (4) - Lab Techniques in Cell& Molec Bio</p> <p><u>BIOL 401</u> (3) - Advanced Cell Biology</p> <p><u>BIOL 402</u> (4) - Functional Genomics</p> <p><u>BIOL 405</u> (3) - Cell & Molec Biol of Human Disease</p> <p><u>BIOL 410</u> (2) - Current Topics in Molec. & Cell Biol</p> <p><u>BIOL 495</u> (3) - Biology of Fermentation</p>
Physiology Courses *	<p><u>BIOL 310</u> (5) - Survey of Human Anatomy</p> <p><u>BIOL 404</u> (3) - Animal Physio:Cellular Aspects</p> <p><u>BIOL 417</u> (4) - Reproductive Physio</p> <p><u>BIOL 427</u> (5) - Biomechanics</p> <p><u>BIOL 428</u> (4) - Sensory Neurophys and Ecol</p> <p><u>BIOL 455</u> (4) - Human Immuno & Patho</p> <p><u>BIOL 488</u> (2) - Senior Seminar in Physiology</p>	<p><u>BIOL/ESRM 424/478</u> (5) - Plant Eco-Physiology</p> <p><u>BIOL 425</u> (5) - Plant Physiology and Development</p> <p><u>BIOL 453</u> (5) - Comp Anatomy of Vertebrates *</p> <p><u>BIOL 455</u> (4) - Human Immuno & Patho</p> <p><u>BIOL 457</u> (3) - Chemical Communication</p> <p><u>BIOL 460</u> (3) - Mammalian Physiology</p> <p><u>BIOL 466</u> (3) - Pathobiology of Emerging Diseases</p>	<p><u>BIOL 310</u> (5) - Survey of Human Anatomy</p> <p><u>BIOL 418</u> (4) - Circadian Rhythms</p> <p><u>BIOL 421</u> (4) - Eco & Evo Physio of Animals</p> <p><u>BIOL 422</u> (3) - Behavior of Plants</p> <p><u>BIOL 452</u> (5) - Vertebrate Biology*</p> <p><u>BIOL 462</u> (3) - Animal Physiology</p> <p><u>BIOL 463</u> (3) - Animal Physiology Lab</p> <p><u>BIOL 467</u> (3) - Comparative Animal Physiology</p>
Ecology, Evolution, Systematics, and Conservation Courses	<p><u>BIOL 315</u> (3) - Biol. Impacts of Climate Change</p> <p><u>BIOL/FISH 473/474</u> (3/2) - Limnology & Lab</p> <p><u>BIOL 486</u> (1) - Senior Seminar in Ecology</p>	<p><u>BIOL 423</u> (3) - Marine Ecological Processes</p> <p><u>BIOL 479</u> (3) - Topics in Sustainable Fisheries</p> <p><u>BIOL 483</u> (1) - Senior Seminar in Paleobiology</p> <p><u>BIOL 486</u> (2) - Senior Seminar in Ecology</p>	<p><u>BIOL 315</u> (3) - Biol. Impacts of Climate Change</p> <p><u>BIOL 469</u> (3) - Evolution and Medicine</p> <p><u>BIOL 472</u> (4) - Community Ecology</p> <p><u>BIOL 480</u> (4) - Field Ecology</p> <p><u>BIOL 483</u> (1) - Senior Seminar in Paleobiology</p> <p><u>BIOL 489</u> (1) - Senior Sem in Plant Biology</p>
Counts for all degrees	<p><u>BIOL 490</u> (1) - Senior Sem in Fungal Symbiosis</p>		<p><u>BIOL 305</u> (3) - Video Storytelling</p> <p><u>BIOL 359</u> (3) - Quantitative Biology</p> <p><u>BIOL 492</u> (3) - Teaching Biology Inclusively</p>
Special Topics		<p><u>BIOL 497</u> (2) - New Cell Seminar</p> <p><u>BIOL 497</u> (2) - New Seminar</p> <p><u>BIOL 497</u> (3) - EEC class</p> <p><u>BIOL 497</u> (3) - New Consciousness Class</p>	<p><u>BIOL 497</u> (2) - New Cell Seminar</p> <p><u>BIOL 497</u> (3) - Untitled class</p>

Selected Additional Courses For 2020 - 2021¹ (tentative)

Category	Autumn 2020	Winter 2021	Spring 2021
Genetics	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	FISH/BIOL 340 (5) - Genetics & Molecular Ecol GENOME 361 (3) - Fundamentals of Genetics
Math and Stats	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
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 ESRM 453 (3) - Biology and Conservation of Mammals <u>FISH 475 (5) - Marine Mammalogy</u>
General Biology Electives	BH 402 (5) - Ethical Theory MICROM 301/ <u>302L</u> (3/2) - Intro to Microbio/Lab	BH 421 (5) - History of Eugenics BH 444 (3) - Ethical Implications of Emerging Biotech	BH 420 (3) -Philosophical Problems in Bioethics GWSS/ PSYCH 357 (5) - Psychobiology of Women MICROM 301/ <u>302L</u> (3/2) - Intro to Microbio/Lab
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 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 <u>MICROM 431L (3) - Prok. Recomb DNA Tech</u> MICROM 442 (3) - Medical Bacteriology MICROM 450 (3) - Molecular Bio of Viruses	BIOC 406 (3) - Survey in Biochemistry 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 460 (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 and 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 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 457 (3/5) - Fish and Wildlife Toxicology ESRM 458 (5) - Mgmt of Thrt, Endgd, Sens Sp FISH 444 (5) - Conservation Genetics	ESRM 250 (5) - Intro to GIS ESRM 459 (3) -Wildlife Cons. in NW Ecosystems FISH 330 (5) - Climate Change Imp. on Marine Systems FISH 404 (5) -Diseases of Aquatic Animals GEOG 360 (5) - Principles of GIS Mapping PSYCH 419 (5) - Behavioral Stds of Zoo Animals
Plant Biology	ESRM 325 (3) - Environmental Appl. Of Plants ESRM 415 (5) - Terrestrial Invasion Ecology	<u>ESRM 404 (5) - Plant Microbiology</u>	ESRM 411 (3) - Plant Propagation: Princ. & Practice ESRM 412 (3) - Native Plant Production

24-Jul-20

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.