

Matrix Planned Biology Courses For 2023 - 2024 (Subject to Change)

Category	Autumn 2023	Winter 2024	Spring 2024
Foundation Courses	BIOL 350 (3) - Foundations in Physiology BIOL 354 (3) - Foundations in Evol & Systematics BIOL 355 (3) - Foundations in Molec Cell Biology BIOL 356 (3) - Foundations in Ecology	BIOL 350 (3) - Foundations in Physiology BIOL 354 (3) - Foundations in Evol & Systematics BIOL 355 (3) - Foundations in Molec Cell Biology BIOL 356 (3) - Foundations in Ecology	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 *	<u>BIOL 311</u> (5) - Biology of Fishes <u>BIOL 441</u> (5) - Trends in Land Plant Evolution <u>BIOL 443</u> (5) - Evolution of Mammals and Ancestors <u>BIOL 448</u> (5) - Mammalogy	<u>BIOL 434</u> (5) - Invertebrate Zoology <u>BIOL 447</u> (5) - Greening the Earth* <u>BIOL 451</u> (5) - Invertebrate Paleontology <u>BIOL 453</u> (5) - Comp Anatomy of Vertebrates *	BIOL 280 (4) - History of Life BIOL 331 (3) - Landscape Plant Recognition <u>BIOL 434</u> (5) - Invertebrate Zoology <u>BIOL 444</u> (5) - Ornithology <u>BIOL 446</u> (5) - Plant ID & Classification <u>BIOL 452</u> (5) - Vertebrate Zoology *
Molecular Cell Developmental Biology Courses	<u>BIOL 302</u> (4) - Lab Techniques in Cell& Molec Bio <u>BIOL 400</u> (4) - Experiments in Molecular Bio. BIOL 405 (3) - Cell & Molecular Biolo of Human Disease BIOL 411 (4) - Developmental Biology BIOL 431 (1) - Cannabinoids, Plant and Human BIOL 455 (4) - Human Immuno & Pathology of Infectious Diseases BIOL 464 (2) - Molecular Mechanisms of Cancer Seminar	<u>BIOL 302</u> (4) - Lab Techniques in Cell& Molec Bio. <u>BIOL 400</u> (4) - Experiments in Molecular Bio. BIOL 401 (3) - Advanced Cell Biology BIOL 407 (4) - Molecular Biology of STEM Cells BIOL 411 (4) - Developmental Biology BIOL 431 (1) - Cannabinoids, Plant and Human BIOL 436 (3) - Molecular Cell Biology of Protozoan Parasites BIOL 455 (4) - Human Immuno & Pathology of Infectious Diseases BIOL 466 (3) - Pathobiology of Emerging Diseases BIOL 485 (2) - Senior Seminar in MCD	<u>BIOL 302</u> (4) - Lab Techniques in Cell& Molec Bio. BIOL 401 (3) - Advanced Cell Biology <u>BIOL 402</u> (4) - Functional Genomics BIOL 411 (4) - Developmental Biology BIOL 415 (3) - Evolution and Development BIOL 442 (3) - Plant Evolution & Development - <i>New Class</i> BIOL 459 (3) - Developmental Neurobiology
Physiology Courses *	<u>BIOL 310</u> (5) -Survey of Human Anatomy BIOL 417 (4) - Reproductive Physio BIOL 462 (3) - Adv Animal Phys BIOL 463 (3) - Adv Animal Phys Lab BIOL 465 (3) - Comparative Endocrinology	BIOL 404 (3) - Animal Physiology: Cellular Aspects <u>BIOL 421</u> (4) - Ecological and Evolutionary Physiology of Animals <u>BIOL/ESRM 424/478</u> (5) - Plant Eco-Physiology BIOL 425 (5) - Adv Plant Physiology and Development <u>BIOL 427</u> (5) - Biomechanics <u>BIOL 453</u> (5) - Comp Anatomy of Vertebrates * BIOL 454 (3) - Molecular Mech. of Somatosensation BIOL 457 (3) - Chemical Communication BIOL 461 (3) - Neurobiology BIOL 465 (3) - Comparative Endocrinology	<u>BIOL 310</u> (5) -Survey of Human Anatomy BIOL 404 (3) - Animal Physiology: Cellular Aspects BIOL 418 (4) - Biological Clocks and Rhythms <u>BIOL 452</u> (5) - Vertebrate Zoology * BIOL 461 (3) - Neurobiology BIOL 466 (3) - Pathobio of Emerging Diseases BIOL 467 (3) - Comparative Animal Physiology
Ecology, Evolution, Systematics, and Conservation Courses*	BIOL 315 (3) - Biol. Impacts of Climate Change BIOL 423 (3) -Marine Ecological Processes <u>BIOL/FISH 473/474</u> (3/2) - Limnology & Lab BIOL 476 (4) - Conservation Biology <u>BIOL 481</u> (5) - Experimental Evolutionary Ecology	<u>BIOL 447</u> (5) - Greening the Earth* BIOL 478 (3) - Topics in Sustainable Fisheries	BIOL 315 (3) - Biol. Impacts of Climate Change BIOL 385 (3) - Evolutionary Medicine <u>BIOL 468</u> (4) - Ecology of Animal Movement BIOL 469 (3) - Evolution and Medicine <u>BIOL 472</u> (5) - Community Ecology <u>BIOL 480</u> (4) - Field Ecology BIOL 486 (2) - Seminar in Ecology
Counts for all degrees			BIOL 305 (3) - Video Storytelling BIOL 359 (3) - Quantitative Biology
Special Topics <small>See listserv for how classes will apply</small>	BIOL 497 (4) - Model Building in Cell Biology BIOL 497 (3) - Science and Policy	BIOL 497 (3) - Lab in Exercise Phys BIOL 497 (3) - Topic in ?	BIOL 497 (3) - Lab in Exercise Phys

27-Jun-23

Underlined courses indicate a lab class

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

Selected Additional Courses For 2023 - 2024¹ (Subject to change)

Category	Autumn 2023	Winter 2024	Spring 2024
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
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	ESRM 452 (3) - Field Ornithology FISH 450 (4) - Salmonid Beh & Life Hist		ESRM 435 (3) - Insect Ecology ENST 280 (5) - Natural History of the Puget Sound
General Biology Electives	BIOA 351 (5) - Principals of Evolutionary Med BH 402 (5) - Ethical Theory FISH 552/553 (2/2) - Intro to R Program/Adv R Program MICROM 301/302L (3/2) - Intro to Microbio/Lab PSYCH 300 (5) - Animal Behavior	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
Molecular Cell Developmental Biology Courses	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
Physiology Courses	NUTR 405 (3) - Phys Activity in Health and Disease		NUTR 406 (3) - Sports Nutrition
Ecology, Evolution, Systematics, and Conservation Courses	ESRM 250 (5) - Intro to GIS ESRM/ENVIR 362 (5) - Intro to Rest Ecol ESRM 430 (5) - Remote Sensing ESRM 441 (5) - Landscape Ecology ESRM 465 (3) - Econ of Conservation ESRM 470 (5) - Natural Res Policy & Planning FISH 406 (5) - Parasite Ecology FISH 423 (4) - Aquatic Invasion Ecology 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 457 (3/5) - Fish and Wildlife Toxicology ESRM 458 (5) - Mgmt of Thrt, Endgd, Sens Sp	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
Plant Biology	ESRM 325 (3) - Environmental Appl. Of Plants ESRM 415 (5) - Terrestrial Invasion Ecology	ESRM 404 (5) - Plant Microbio Lab ESRM 409 (5) - Soil Ecology	ESRM 411 (3) - Plant Propagation: Princ. & Practice ESRM 412 (3) - Native Plant Production

28-Jun-23

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.

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