

Matrix Planned Biology Courses For 2022 - 2023 (Subject to Change)

| Category | Autumn 2022 | Winter 2023 | Spring 2023 |
|---|--|--|--|
| 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 350 (3) - Foundations in Physiology BIOL 354 (3) - Foundations in Evolution BIOL 355 (3) - Foundations in Molec Cell Biology |
| Natural History / Biodiversity Course * | BIOL 280 (4) - History of Life <u>BIOL 311 (5) - Biology of Fishes</u> <u>BIOL 433 (5) - Marine Ecology</u> <u>BIOL 439 (5) - Functional Morphology</u> <u>BIOL 441 (5) - Trends in Land Plant Evolution</u> <u>BIOL 443 (5) - Evolution of Mammals and Ancestors</u> | <u>BIOL 434 (5) - Invertebrate Zoology</u> <u>BIOL 447 (5) - Greening the Earth*</u> <u>BIOL 450 (5) - Vertebrate Paleontology</u> <u>BIOL 451 (5) - Invertebrate Paleontology</u> <u>BIOL 453 (5) - Comp Anatomy of Vertebrates *</u> | BIOL 331 (3) - Landscape Plant Recognition <u>BIOL 434 (5) - Invertebrate Zoology</u> <u>BIOL 444 (5) - Ornithology</u> <u>BIOL 446 (5) - Plant ID & Classification</u> <u>BIOL 452 (5) - Vertebrate Biology*</u> |
| Molecular Cell Developmental Biology Courses | <u>BIOL 302 (4) - Lab Techniques in Cell& Molec Bio</u> BIOL 401 (3) - Advanced Cell Biology BIOL 411 (4) - Developmental Biology BIOL 416 (3) - Development of Plant Genetics BIOL 431 (1) - Cannabinoids, Plant and Human BIOL 455 (4) - Human Immunology and Patho | <u>BIOL 302 (4) - Lab Techniques in Cell& Molec Bio</u> BIOL 401 (3) - Advanced Cell Biology BIOL 415 (4) - Evolution and Development BIOL 431 (1) - Cannabinoids, Plant and Human BIOL 455 (4) - Human Immunology and Patho BIOL 464 (2) - Molecular Mechanisms of Cancer Seminar BIOL 485 (2) - Senior Seminar in MCD | <u>BIOL 302 (4) - Lab Techniques in Cell& Molec Bio</u> <u>BIOL 400 (4) - Experiments in Molecular Bio.</u> BIOL 410 (2) - Current Topics in MCD Research <u>BIOL 412 (4) - Developmental Biology Lab</u> BIOL 459 (3) - Developmental Neurobiology BIOL 464 (2) - Molecular Mechanisms of Cancer Seminar BIOL 485 (2) - Senior seminar in MCD <u>BIOL 495 (3) - Fermentation Biology</u> |
| Physiology Courses * | <u>BIOL 310 (5) -Survey of Human Anatomy</u> BIOL 408 (4) - Neuroethology BIOL 417 (4) - Reproductive Physio <u>BIOL 428 (4) - Sensory Neurophys and Ecol</u> BIOL 460 (3) - Mammalian Physiology BIOL 466 (3) - Pathobiology of Emerging Diseases | <u>BIOL/ESRM 424/478 (5) - Plant Eco-Physiology</u> BIOL 426 (3) - Comparative Immunology <u>BIOL 427 (5) - Biomechanics</u> <u>BIOL 453 (5) - Comp Anatomy of Vertebrates *</u> BIOL 454 (3) - Molecular Mech. of Somatosensation BIOL 457 (3) - Chemical Communication BIOL 461 (3) - Neurobiology | <u>BIOL 310 (5) -Survey of Human Anatomy</u> BIOL 418 (4) - Biological Clocks and Rhythms BIOL 429 (3) - Organ Dev, Homeostasis & Regeneration <u>BIOL 452 (5) - Vertebrate Biology*</u> BIOL 461 (3) - Neurobiology BIOL 467 (3) - Comparative Animal Physiology |
| Ecology, Evolution, Systematics, and Conservation Courses | BIOL 315 (3) - Biol. Impacts of Climate Change <u>BIOL/FISH 473/474 (3/2) - Limnology & Lab</u> BIOL 476 (4) - Conservation Biology <u>BIOL 481 (5) - Experimental Evolutionary Ecology</u> | BIOL 406 (3) - Conservation of Large Vertebrates <u>BIOL 447 (5) - Greening the Earth*</u> BIOL 478 (3) - Topics in Sustainable Fisheries | BIOL 385 (3) - Evolutionary Medicine BIOL 469 (3) - Evolution and Medicine <u>BIOL 472 (5) - Community Ecology</u> <u>BIOL 480 (4) - Field Ecology</u> BIOL 486 (2) - Senior Seminar in Ecology BIOL 489 (2) - Senior Sem in Plant Biology |
| Counts for all degrees | | BIOL 359 (3) - Quantitative Biology | BIOL 305 (3) - Video Storytelling BIOL 359 (3) - Quantitative Biology BIOL 492 (3) - Teaching Biology Inclusively |
| Special Topics <small>See listserv for how classes will apply</small> | | BIOL 497 (2) - Biology by the Numbers BIOL 497 (3) - Biology of Protozoan Parasites | BIOL 497 (2) - topic tbd |

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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 2022 - 2023 ¹ (Subject to change)

| Category | Autumn 2022 | Winter 2023 | Spring 2023 |
|--|---|--|---|
| 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 ESRM 456 (3) - Biol & Cons of Birds FISH 450 (4) - Salmonid Beh & Life Hist | | ESRM 435 (3) - Insect Ecology ESRM 453 (3) - Biology and Ecology of Mammals ENSV 280 (5) - Natural History of the Puget Sound |
| General Biology Electives | BIOA 351 (5) - Principals of Evolutionary Med BH 402 (5) - Ethical Theory GWSS/ PSYCH 357 (5) - Psychobiology of Women 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 |
| 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 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 457 (3/5) - Fish and Wildlife Toxicology ESRM 458 (5) - Mgmt of Thrt, Endgd, Sens Sp FISH 464 (4) - Arctic Marine Vertebrate Ecology | 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 Microbiology Lab | 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.

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