

## *Matrix Planned Biology Courses For 2025 - 2026 (Subject to Change)*

| Category                                                                    | Autumn 2025                                                                                                                                                                                                                                                                          | Winter 2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Spring 2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Foundation Courses</b>                                                   | <b>BIOL 350</b> (3) - Foundations in Physiology<br><b>BIOL 354</b> (3) - Foundations in Evol & Systematics<br><b>BIOL 355</b> (4) - Foundations in Molec Cell Biology                                                                                                                | <b>BIOL 350</b> (3) - Foundations in Physiology<br><b>BIOL 354</b> (3) - Foundations in Evol & Systematics<br><b>BIOL 355</b> (4) - Foundations in Molec Cell Biology<br><b>BIOL 356L</b> (3) - Foundations in Ecology                                                                                                                                                                                                                                                       | <b>BIOL 350</b> (3) - Foundations in Physiology<br><b>BIOL 355</b> (3) - Foundations in Molec Cell Biology<br><b>BIOL 354</b> (4) - Foundations in Evolution<br><b>BIOL 356L</b> (3) - Foundations in Ecology                                                                                                                                                                                                                                                                  |
| <b>Natural History / Biodiversity Course *</b>                              | <b>BIOL 311L</b> (5) - Biology of Fishes<br><b>BIOL 439L</b> (5) - Functional Morphology *<br><b>BIOL 441L</b> (5) - Trends in Land Plant Evolution<br><b>BIOL 443L</b> (5) - Evolution of Mammals & Ancestors                                                                       | <b>BIOL 434L</b> (5) - Invertebrate Zoology<br><b>BIOL 447L</b> (5) - Greening the Earth *<br><b>BIOL 450L</b> (5) - Vertebrate Paleontology<br><b>BIOL 451L</b> (5) - Invertebrate Paleontology                                                                                                                                                                                                                                                                             | <b>BIOL 331</b> (3) - Landscape Plant Recognition<br><b>BIOL 434L</b> (5) - Invertebrate Zoology<br><b>BIOL 446L</b> (5) - Plant ID & Classification<br><b>BIOL 452L</b> (5) - Vertebrate Zoology *                                                                                                                                                                                                                                                                            |
| <b>Molecular Cell Developmental Biology Courses</b>                         | <b>BIOL 302L</b> (4) - Lab Techniques in Cell& Molec Bio<br><b>BIOL 400L</b> (4) - Experiments in Molecular Bio.<br><b>BIOL 401</b> (4) - Current Topics in MCD<br><b>BIOL 416</b> (3) - Molecular Genetics of Plant Dev.<br><b>BIOL 466</b> (3) - Pathobiology of Emerging Diseases | <b>BIOL 302L</b> (4) - Lab Techniques in Cell& Molec Bio<br><b>BIOL 400L</b> (4) - Experiments in Molecular Bio.<br><b>BIOL 403</b> (3) - Knowledge Synthesis in Cell Biology<br><b>BIOL 407</b> (4) - Molecular Biology of STEM Cells<br><b>BIOL 411</b> (4) - Developmental Biology<br><b>BIOL 436</b> (3) - Molecular Cell Biology of Protozoan Parasites<br><b>BIOL 464</b> (2) - Molecular Mechanisms of Cancer Seminar<br><b>BIOL 485</b> (2) - Senior Seminars in MCD | <b>BIOL 400L</b> (4) - Experiments in Molecular Bio.<br><b>BIOL 402L</b> (4) - Functional Genomics<br><b>BIOL 411</b> (4) - Developmental Biology<br><b>BIOL 442</b> (3) - Genetics of Plant Innovations<br><b>BIOL 457</b> (3) - Chemical Communication<br><b>BIOL 485</b> (2) - Senior Seminars in MCD (2 sections)                                                                                                                                                          |
| <b>Physiology Courses *</b>                                                 | <b>BIOL 413L</b> (5) -Survey of Human Anatomy<br><b>BIOL 417</b> (4) - Reproductive Physiology<br><b>BIOL 439L</b> (5) - Functional Morphology *<br><b>BIOL 462</b> (3) - Advanced Animal Physiology<br><b>BIOL 463L</b> (3) - Advanced Animal Physiology Lab                        | <b>BIOL 421L</b> (5) - Ecol and Evo Phys of Animals<br><b>BIOL/ESRM 424/478L</b> (5) - Plant Eco-Physiology<br><b>BIOL 425L</b> (5) - Adv Plant Physiology and Development<br><b>BIOL 426</b> (3) - Comparative Immunology<br><b>BIOL 427L</b> (5) - Biomechanics<br><b>BIOL 454</b> (3) - Molecular Mech. of Somatosensation<br><b>BIOL 461</b> (3) - Neurobiology<br><b>BIOL 465</b> (3) - Comparative Endocrinology                                                       | <b>BIOL 404</b> (3) - Animal Physiology - Cellular Aspects<br><b>BIOL 413L</b> (5) -Survey of Human Anatomy<br><b>BIOL 418</b> (4) - Biological Clocks and Rhythms<br><b>BIOL 428L</b> (5) - Sensory Neurophys & Ecology Lab<br><b>BIOL 452L</b> (5) - Vertebrate Zoology *<br><b>BIOL 461</b> (3) - Neurobiology<br><b>BIOL 465</b> (3) - Comparative Endocrinology<br><b>BIOL 467</b> (3) - Comparative Animal Physiology<br><b>BIOL 488</b> (2) - Senior Seminars in Physio |
| <b>Ecology, Evolution, Systematics, and Conservation Courses*</b>           | <b>BIOL 315</b> (3) - Biol. Impacts of Climate Change<br><b>BIOL 423</b> (3) - Marine Ecological Processes<br><b>BIOL/FISH 473</b> (3) - Limnology<br><b>BIOL 481L</b> (5) - Experimental Evolutionary Ecology                                                                       | <b>BIOL 406</b> (3) - Conservation of Large Vertebrates<br><b>BIOL 447L</b> (5) - Greening the Earth *<br><b>BIOL 478</b> (3) - Topics in Sustainable Fisheries                                                                                                                                                                                                                                                                                                              | <b>BIOL 385</b> (3) - Evolutionary Medicine<br><b>BIOL 469</b> (3) - Evolution and Medicine<br><b>BIOL 475</b> (3) - Paleo Field Methods<br><b>BIOL 476</b> (3) - Conservation Biology<br><b>BIOL 480</b> (4) - <u>Field Biology</u><br><b>BIOL 486</b> (2) - Sr Seminars in Ecology                                                                                                                                                                                           |
| <b>Counts for all degrees</b>                                               |                                                                                                                                                                                                                                                                                      | <b>BIOL 359</b> (3) - Quantitative Biology                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>BIOL 305</b> (3) - Video Storytelling<br><b>BIOL 359</b> (3) - Quantitative Biology                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Special Topics</b><br><small>listserv for how classes will apply</small> | <b>BIOL 497</b> (2) -Introduction to Systems Biology                                                                                                                                                                                                                                 | <b>BIOL 497</b> (3) -Racism in Neuroscience<br><b>BIOL 497</b> (3) - Biology by the Numbers                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

19-Mar-25

L indicate a lab class

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

## **Selected Additional Courses For 2025 - 2026**<sup>1</sup> (Subject to change)

| Category                                                         | Autumn 2025                                                                                                                                                                                                                                                                                                                                                                                                        | Winter 2026                                                                                                                                                                                                                                                                                                                                                                                                                    | Spring 2026                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Genetics</b>                                                  | <b>FISH/BIOL 340</b> (5) - Genetics & Molecular Ecol<br><b>GENOME 361</b> (3) - Fundamentals of Genetics<br><b>GENOME 371</b> (5) - Intro Genetics                                                                                                                                                                                                                                                                 | <b>GENOME 361</b> (3) - Fundamentals of Genetics                                                                                                                                                                                                                                                                                                                                                                               | <b>GENOME 361</b> (3) - Fundamentals of Genetics                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Math and Stats</b>                                            | <b>BIOST 310</b> (4) - Biostats for Health Professionals<br><b>Q SCI 291</b> (5) - Calculus for Biologists I<br><b>Q SCI 482</b> (5) - Stat Infer in Appl Research                                                                                                                                                                                                                                                 | <b>BIOST 310</b> (4) - Biostats for Health Professionals<br><b>Q SCI 291</b> (5) - Calculus for Biologists<br><b>Q SCI 292</b> (5) - Calculus for Biologists II<br><b>Q SCI 482</b> (5) - Stat Infer in Appl Research                                                                                                                                                                                                          | <b>BIOST 310</b> (4) - Biostats for Health Professionals<br><b>Q SCI 292</b> (5) - Calculus for Biologists II                                                                                                                                                                                                                                                                                                                     |
| <b>Natural History / Biodiversity Course</b>                     | <u><b>ESRM 452L</b></u> (3) - Field Ornithology<br><b>FISH 450</b> (4) - Salmonid Beh & Life Hist                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>ESRM 435</b> (3) - Insect Ecology<br><b>ENVIR 280</b> (5) - Natural History of the Puget Sound                                                                                                                                                                                                                                                                                                                                 |
| <b>General Biology Electives</b>                                 | <b>BIOA 351</b> (5) - Principals of Evolutionary Med<br><b>BH 402</b> (5) - Ethical Theory<br><b>FISH 552/553</b> (2/2) - Intro to R Program/Adv R Program<br><b>MICROM 301/302L</b> (3/2) - Intro to Microbio/Lab<br><b>PSYCH 300</b> (5) - Animal Behavior                                                                                                                                                       | <b>BH 444</b> (3) - Ethical Implications of Emerging Biotech<br><b>BH 488</b> (3) - Global Bioethics                                                                                                                                                                                                                                                                                                                           | <b>BH 311</b> (3) -Ethical Issues in Modern Medicine<br><b>BH 420</b> (3) -Philospohical Problems in Bioethics<br><b>BH 421</b> (5) -History of Eugenics<br><b>GWSS/ PSYCH 357</b> (5) - Psychobiology of Women<br><b>MICROM 301/302L</b> (3/2) - Intro to Microbio/Lab                                                                                                                                                           |
| <b>Molecular Cell Developmental Biology Courses</b>              | <b>BIOC 405</b> (3) - Survey in Biochemistry<br><b>BIOC 440</b> (4) - Biochemistry<br><b>BIOC 446L</b> (4) - Biochemistry Lab<br><b>GENOME 372</b> (5) - Genomics and Proteomics<br><b>IMMUNO 441</b> (4) - Intro to Immunology<br><b>MICROM 402L</b> (3) - Fund of Gen Micro Lab<br><b>MICROM 410</b> (3) - Fund of Gen Micro                                                                                     | <b>BIOC 405</b> (3) - Survey in Biochemistry<br><b>BIOC 406</b> (3) - Survey in Biochemistry<br><b>BIOC 441</b> (4) - Biochemistry<br><b>GENOME 465</b> (4) - Adv Human Genetics<br><b>GENOME 466</b> (4) - Cancer Genetics<br><b>MICROM 411L</b> (4) - Bacterial Genetics<br><b>MICROM 431L</b> (3) - Prok. Recomb DNA Tech<br><b>MICROM 442</b> (3) - Medical Bacteriology<br><b>MICROM 450</b> (3) - Molec. Biol of Viruses | <b>BIOC 406</b> (3) - Survey in Biochemistry<br><b>BIOC 442</b> (4) - Biochemistry<br><b>BIOC 446L</b> (4) - Biochemistry Lab<br><b>GENOME 373</b> (5) - Genome Informatics<br><b>GENOME 475</b> (3) - Debates in Genetics<br><b>MICROM 402L</b> (3) - Fund of Gen Micro Lab<br><b>MICROM 412</b> (3) - Prokaryotic Diversity<br><b>MICROM 445</b> (3) - Medical Virology<br><b>MICROM 460</b> (3) - Med. Mycology & Parasitology |
| <b>Physiology Courses</b>                                        | <b>NUTR 405</b> (3) - Phys Activity in Health and Disease<br><b>P BIO 375</b> (4) - Human Phys in Health and Disease                                                                                                                                                                                                                                                                                               | <b>P BIO 376</b> (4) - Human Phys in Health and Disease                                                                                                                                                                                                                                                                                                                                                                        | <b>NUTR 406</b> (3) - Sports Nutrition                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Ecology, Evolution, Systematics, and Conservation Courses</b> | <b>ESRM 250</b> (5) - Intro to GIS<br><b>ESRM/ENVIR 362</b> (5) - Intro to Rest Ecol<br><b>ESRM 430</b> (5) - Remote Sensing<br><b>ESRM 441</b> (5) - Landscape Ecology<br><b>ESRM 465</b> (3) - Econ of Conservation<br><b>ESRM 470</b> (5) - Natural Res Policy & Planning<br><b>FISH 406</b> (5) - Parasite Ecology<br><b>FISH 423</b> (4) - Aquatic Invasion Ecology<br><b>PSYCH 300</b> (5) - Animal Behavior | <b>ESRM 250</b> (5) - Intro to GIS<br><b>ESRM 400</b> (3) - Natural Resource Conflict Mgmt<br><b>ESRM 432</b> (4) - Adv. Remote Sensing<br><b>ESRM 457</b> (3/5L) - Fish and Wildlife Toxicology<br><b>ESRM 458</b> (5) - Mgmt of Thrt, Endgd, Sens Sp                                                                                                                                                                         | <b>ESRM 250</b> (5) - Intro to GIS<br><b>ESRM 459</b> (3) -Wildlife Cons. in NW Ecosystems<br><b>FISH 330</b> (5) - Climate Change Imp. on Marine Systems<br><b>FISH 444</b> (5) -Conservation Genetics<br><b>GEOG 360</b> (5) - Principles of GIS Mapping                                                                                                                                                                        |
| <b>Plant Biology</b>                                             | <b>ESRM 325</b> (3) - Environmental Appl. Of Plants<br><b>ESRM 415</b> (5) - Terrestrial Invasion Ecology                                                                                                                                                                                                                                                                                                          | <b>ESRM 422</b> (2) - Plant Microbio Seminar<br><b>ESRM 409</b> (5) - Soil Ecology                                                                                                                                                                                                                                                                                                                                             | <b>ESRM 411</b> (3) - Plant Propagation: Princ. & Practice<br><b>ESRM 412</b> (3) - Native Plant Production                                                                                                                                                                                                                                                                                                                       |

12-Dec-24

<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