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 Evol & Systematics **BIOL 355** (3) - Foundations in Molec Cell Biology
Natural History / Biodiversity Course *	**BIOL 280** (4) - History of Life **BIOL 311** (5) - Biology of Fishes **BIOL 433** (5) - Marine Ecology **BIOL 439** (5) - Functional Morphology **BIOL 441** (5) - Trends in Land Plant Evolution **BIOL 443** (5) - Evolution of Mammals and Ancestors	**BIOL 434** (5) - Invertebrate Zoology **BIOL 447** (5) - Greening the Earth***** **BIOL 450** (5) - Vertebrate Paleontology **BIOL 451** (5) - Invertebrate Paleontology **BIOL 453** (5) - Comp Anatomy of Vertebrates *	**BIOL 331** (3) - Landscape Plant Recognition **BIOL 434** (5) - Invertebrate Zoology **BIOL 446** (5) - Plant ID & Classification **BIOL 452** (5) - Vertebrate Biology*
Molecular Cell Developmental Biology Courses	**BIOL 302** (4) - Lab Techniques in Cell& Molec Bio **BIOL 401** (3) - Advanced Cell Biology **BIOL 411** (4) - Developmental Biology **BIOL 412** (4) - Developmental Biology Lab **BIOL 416** (3) - Development of Plant Genetics **BIOL 431** (1) - Cannabinoids, Plant and Human **BIOL 455** (4) - Human Immunology and Patho	**BIOL 302** (4) - Lab Techniques in Cell& Molec Bio **BIOL 400** (4) - Experiments in Molecular Bio. **BIOL 401** (3) - Advanced Cell Biology **BIOL 405** (3) - Cell & Molec Biol of Human Disease **BIOL 411** (4) - Developmental 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	**BIOL 400** (4) - Experiments in Molecular Bio. **BIOL 401** (3) - Advanced Cell Biology **BIOL 405** (3) - Cell & Molec Biol of Human Disease **BIOL 459** (3) - Developmental Neurobiology **BIOL 464** (2) - Molecular Mechanisms of Cancer Seminar **BIOL 485** (2) - Senior seminar in MCD **BIOL 495** (3) - Fermentation Biology
Physiology Courses *	**BIOL 310** (5) -Survey of Human Anatomy **BIOL 408** (4) - Neuroethology **BIOL 417** (4) - Reproductive Physio **BIOL 428** (4) - Sensory Neurophys and Ecol **BIOL 466** (3) - Pathobiology of Emergining Diseases	**BIOL/ESRM 424/478** (5) - Plant Eco-Physiology **BIOL 425 (5)**- Plant Physiology and Development **BIOL 426** (3) - Comparative Immunology **BIOL 427** (5) - Biomechanics **BIOL 453** (5) - Comp Anatomy of Vertebrates * **BIOL 454** (3) - Molecular Mech. of Somatosensation **BIOL 457** (3) - Chemical Communication **BIOL 461** (3) - Neurobiology **BIOL 488** (2) - Senior Seminar in Physiology	**BIOL 310** (5) -Survey of Human Anatomy **BIOL 418** (4) - Circadian Rhythms **BIOL 421** (5) - Eco and Evo Physiology of Animals **BIOL 452** (5) - Vertebrate Biology* **BIOL 461** (3) - Neurobiology **BIOL 467** (3) - Comparative Animal Physiology **BIOL 488** (2) - Senior Seminar in Physiology
Ecology, Evolution, Systematics, and Conservation Courses	**BIOL 315** (3) - Biol. Impacts of Climate Change **BIOL/FISH 473/474** (3/2) - Limnology & Lab **BIOL 476** (4) - Conservation Biology **BIOL 481** (5) - Experimental Evolutionary Ecology	**BIOL 406** (3) - Conservation of Large Vertebrates **BIOL 447** (5) - Greening the Earth***** **BIOL 468** (4) - Ecology of Animal Movement **BIOL 478** (3) - Topics in Sustainable Fisheries	**BIOL 469** (3) - Evolution and Medicine **BIOL 472** (5) - Community Ecology **BIOL 480** (4) - Field Ecology **BIOL 486** (2) - Senior Seminar in Ecology **BIOL 487** (2) - Senior Seminar in Conservation **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 419** (4) - Data Science for Biologists **BIOL 492** (3) - Teaching Biology Inclusively
Special Topics **See listserv for how classes will apply**		**BIOL 497** (2) - topic tbd	**BIOL 497** (2) - topic tbd

17-May-22

***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	**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) -Philospohical 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	**FISH 324** (3/5L) - Aquatic Physiology and Repro	**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 458** (5) - Mgmt of Thrt, Endgd, Sens Sp **FISH 444** (5) - Conservation Genetics **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) - Terrestial Invasion Ecology	**ESRM 422** (2) - Plant Microbiology seminar	**ESRM 411** (3) - Plant Propagation: Princ. & Practice **ESRM 412** (3) - Native Plant Production

2-May-22

[1] **CAUTION** - ***Not all courses here have been approved for all specific degree options. It is the student's responsibility to determine it 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