

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 <u>BIOL 311</u> (5) - Biology of Fishes <u>BIOL 433</u> (5) - Marine Ecology <u>BIOL 439</u> (5) - Functional Morphology <u>BIOL 441</u> (5) - Trends in Land Plant Evolution <u>BIOL 443</u> (5) - Evolution of Mammals and Ancestors	<u>BIOL 434</u> (5) - Invertebrate Zoology <u>BIOL 447</u> (5) - Greening the Earth* <u>BIOL 450</u> (5) - Vertebrate Paleontology <u>BIOL 451</u> (5) - Invertebrate Paleontology <u>BIOL 453</u> (5) - Comp Anatomy of Vertebrates *	BIOL 331 (3) - Landscape Plant Recognition <u>BIOL 434</u> (5) - Invertebrate Zoology <u>BIOL 446</u> (5) - Plant ID & Classification <u>BIOL 452</u> (5) - Vertebrate Biology*
Molecular Cell Developmental Biology Courses	<u>BIOL 302</u> (4) - Lab Techniques in Cell& Molec Bio 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</u> (4) - Lab Techniques in Cell& Molec Bio <u>BIOL 400</u> (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	<u>BIOL 400</u> (4) - Experiments in Molecular Bio. BIOL 401 (3) - Advanced Cell Biology BIOL 405 (3) - Cell & Molec Biol of Human Disease <u>BIOL 412</u> (4) - Developmental Biology Lab BIOL 459 (3) - Developmental Neurobiology BIOL 464 (2) - Molecular Mechanisms of Cancer Seminar BIOL 485 (2) - Senior seminar in MCD <u>BIOL 495</u> (3) - Fermentation Biology
Physiology Courses *	<u>BIOL 310</u> (5) -Survey of Human Anatomy BIOL 408 (4) - Neuroethology BIOL 417 (4) - Reproductive Physio <u>BIOL 428</u> (4) - Sensory Neurophys and Ecol BIOL 466 (3) - Pathobiology of Emerging Diseases	<u>BIOL/ESRM 424/478</u> (5) - Plant Eco-Physiology <u>BIOL 425</u> (5)- Plant Physiology and Development BIOL 426 (3) - Comparative Immunology <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 <u>BIOL 488</u> (2) - Senior Seminar in Physiology	<u>BIOL 310</u> (5) -Survey of Human Anatomy BIOL 418 (4) - Biological Clocks and Rhythms <u>BIOL 421</u> (5) - Eco and Evo Physiology of Animals <u>BIOL 429</u> (3) - Organ Dev, Homeostasis & Regeneration <u>BIOL 452</u> (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 <u>BIOL/FISH 473/474</u> (3/2) - Limnology & Lab BIOL 476 (4) - Conservation Biology <u>BIOL 481</u> (5) - Experimental Evolutionary Ecology	BIOL 406 (3) - Conservation of Large Vertebrates <u>BIOL 447</u> (5) - Greening the Earth* <u>BIOL 468</u> (4) - Ecology of Animal Movement BIOL 478 (3) - Topics in Sustainable Fisheries	BIOL 469 (3) - Evolution and Medicine <u>BIOL 472</u> (5) - Community Ecology <u>BIOL 480</u> (4) - Field Ecology BIOL 486 (2) - Senior Seminar in Ecology BIOL 487 (2) - Senior Seminar in Conservation <u>BIOL 489</u> (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 <small>See listserve for how classes will apply</small>		BIOL 497 (2) - topic tbd	BIOL 497 (2) - topic tbd

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	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) - Terrestrial Invasion Ecology	ESRM 422 (2) - Plant Microbiology seminar	ESRM 411 (3) - Plant Propagation: Princ. & Practice ESRM 412 (3) - Native Plant Production

15-Sep-22

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