Biology Course Prerequisites

***All prerequisites require a “C” or higher in the course(s) listed as prerequisites***. Revised 1-20-22

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| Course(s): | Course Prerequisite(s), notes, etc.: | Offered |
| BIOL117  Honors Biology: Science of Life | Not for biology major credit | Spring |
| BIOL120/120L (formerly BIOL115)  Principles of Biology | Not for biology major credit | Fall, Spring,  Summer |
| BIOL191/191L or 192 (Honors)  (formerly BIOL190)  Intro. Biology for the Health Professions | Not for biology major credit  Can count for BIOL200/L credit with permission if a grade of A is earned. | Fall, Spring,  Summer |
| BIOL200/200L or 203 (Honors)  (formerly BIOL201)  Intro to Cell Biology and Genetics | MATH102 or qualifying ALEKS score ( > 42 ) | Fall, Spring,  Summer |
| BIOL204  Educ. Career Planning for the Biology | BIOL200/L and 12 earned credits; BIOL majors only | Fall, Spring,  Summer, Winter |
| BIOL205  General Botany | BIOL200/L and BIOL206/L | Spring |
| BIOL206/206L (formerly BIOL202)  Intro to Ecology and Evolution | BIOL200/L | Fall, Spring,  Summer |
| BIOL207  General Zoology | BIOL200/L and BIOL206/L | Fall |
| BIOL208  Biodiversity | BIOL200/L and BIOL206/L | Fall, Spring,  Summer |
| BIOL210  Medical Terminology | Not for biology major credit  BIOL191/L or BIOL200/L | Summer, Winter |
| BIOL215  Essentials of Microbiology | Not for biology major credit  [BIOL191/L or BIOL200/L] and [CHEM121/L or CHEM131/L] | Fall, Spring |
| BIOL220  Essentials of Human Anatomy and Physiology | Not for biology major credit  BIOL191/L or BIOL200/L | Fall, Spring |
| BIOL221/221L  Human Anatomy and Physiology I | Not for biology major credit  BIOL191/L or BIOL200/L | Fall, Spring,  Summer |
| BIOL222/222L  Human Anatomy and Physiology II | Not for biology major credit  BIOL221/L | Fall, Spring,  Summer |
| BIOL301  Field Natural Science | Not for biology major credit  BIOL120/L or BIOL191/L or BIOL200/L or BIOL206/L; major in ENVS or MSED | Fall |
| BIOL303  Life Sciences | Not for biology major credit  BIOL120/L or BIOL191/L or BIOL200/L; major in ELED, EESE, ECSE | Fall, Spring |
| BIOL304  Nat. Hist. Interpretation/ Environmental Education | Not for biology major credit (without permission)  Consent of instructor | Odd Spring |
| BIOL306  Human Ecology & Sustainability | CORE 14 Not for biology major credit  BIOL105 or BIOL120/L or BIOL191/L or BIOL200/L or BIOL206/L or CHEM104 | Spring |
| BIOL309  Genetics | BIOL200/L and BIOL206/L and CHEM131/L | Fall, Spring |
| BIOL310  Conservation Biology | BIOL200/L and BIOL206/L and [BIOL205 or BIOL207 or BIOL208] and CHEM131/L | Spring |
| BIOL318  General Microbiology | BIOL200/L and BIOL206/L and BIOL309 and CHEM132/L | Fall, Spring |
| BIOL325  Animal Physiology | BIOL200/L and BIOL206/L and [BIOL207 or BIOL208] and BIOL309 and CHEM132/L | Fall, Spring |
| BIOL334  Humans, Science & Chesapeake Bay | BIOL206/L and [BIOL205 or BIOL207 or BIOL208] | Occasionally |
| BIOL342  Human Physiology I | BIOL200/L and BIOL206/L and BIOL309 and CHEM131/L | Fall, Spring,  Summer |
| BIOL343  Human Physiology II | BIOL342 | Spring |
| BIOL347  Marine Biology | BIOL200/L and BIOL206/L and [BIOL205 or BIOL207 or BIOL208] and CHEM131/L | -- |

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| BIOL353  Invertebrate Zoology | BIOL200/L and BIOL206/L | Odd Fall |
| BIOL355  Parasitology | BIOL200/L and BIOL206/L and BIOL309 | Spring |
| BIOL360  Histology | BIOL325 or BIOL343 | Odd Fall |
| BIOL367  Endocrinology | [BIOL309 or BIOL325] and BIOL343 and CHEM132/L | Even Spring |
| BIOL371  Animal Behavior | BIOL200/L and BIOL206/L and [BIOL207 or BIOL208] | Spring |
| BIOL381  Writing in the Biological Sciences | CORE 9 Not for biology major credit  ENGL102, ≥16 credits in biology | Occasionally |
| BIOL382  Environm. Ed. and Service Learn. in the Tropics | Junior status and consent of the instructor | Summer |
| BIOL389  Current Developments in Biology | Consent of department  THIS IS A SPECIAL TOPICS COURSE AND REQUIREMENTS MAY VARY | Fall, Spring |
| BIOL402  General Ecology | BIOL200/L and BIOL206/L and [BIOL205 or BIOL207 or BIOL208] and CHEM131/L | Fall |
| BIOL403  Advanced Genetics | BIOL309 | NCO |
| BIOL405  Molecular Ecology, Evolution & Conservation | BIOL200/L and BIOL206/L and BIOL309 and CHEM131/L | Occasionally |
| BIOL406  Limnology | BIOL200/L and BIOL206/L and [BIOL205 or BIOL207 or BIOL208] and CHEM132/L | Odd Spring |
| BIOL408  Cell Biology | BIOL200/L and BIOL206/L and BIOL309 and CHEM131/L (CHEM132/L recommended) | Fall, Spring |
| BIOL409  Molecular Biology | BIOL200/L and BIOL206/L and BIOL309 and CHEM131/L (CHEM132/L recommended) | Fall, Spring |
| BIOL410  Molecular Biology Laboratory | BIOL200/L and BIOL206/L and BIOL309 and CHEM131/L | Fall, Spring |
| BIOL411  Cancer Biology | BIOL200/L and BIOL206/L and BIOL309 and CHEM131/L | Fall |
| BIOL412  Cell Biol Lab | BIOL200/L and BIOL206/L and BIOL309 and CHEM131/L | Spring |
| BIOL413  Evolution | BIOL200/L and BIOL206/L and BIOL309 and [BIOL205 or BIOL207 or BIOL208] and CHEM131/L | Fall |
| BIOL415  Biotechnology | BIOL200/L and BIOL206/L and BIOL309 and CHEM131/L | Occasionally |
| BIOL419  Environmental Microbiology | BIOL200/L and BIOL206/L and BIOL309 and BIOL318 and CHEM131/L and CHEM132/L | Even Spring |
| BIOL420  Microbiology of Infectious Diseases | BIOL200/L and BIOL206/L and BIOL309 and CHEM131/L | Fall |
| BIOL421  Immunology | BIOL200/L and BIOL206/L and BIOL309 and CHEM131/L  (BIOL408 or BIOL409 recommended) | Fall |
| BIOL425  Dissection of the Upper Extremity | BIOL221/L and consent of instructor | Winter |
| BIOL427  Neuromuscular Mechanisms of the Upper Body | [BIOL221/L or BIOL342] and consent of instructor | Spring |
| BIOL428  Virology | BIOL318 or BIOL408 or BIOL409 or BIOL410 or BIOL412 | Spring |
| BIOL432  Vascular Plant Taxonomy | BIOL200/L and BIOL206/L and [BIOL205 or BIOL208] | Fall |
| BIOL435  Plant Ecology | BIOL206/L and [BIOL205 or BIOL208] | Fall |
| BIOL436  Plant Physiology | BIOL200/L and BIOL206/L and [BIOL205 or BIOL208] and BIOL309 and CHEM131/L (CHEM 330 recommended) | Odd Fall |
| BIOL444  Wildlife Management | BIOL200/L and BIOL206/L (BIOL309 and BIOL402 recommended) | Even Spring |
| BIOL446  Tropical Ecology & Conservation | BIOL200/L and BIOL206/L and [BIOL207 or BIOL205 or BIOL208] | Even Spring |

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| BIOL447  Tropical Field Ecology | BIOL200/L and BIOL206/L and [BIOL207 or BIOL205 or BIOL208] | Summer |
| BIOL452  Wetland Ecology | BIOL200/L and BIOL206/L and [BIOL207 or BIOL205 or BIOL208] | Odd Fall |
| BIOL455  Fish Biology | BIOL200/L and BIOL206/L and [BIOL207 or BIOL208] and CHEM132/L  (BIOL325 recommended) | Even Spring |
| BIOL456  Ornithology | BIOL200/L and BIOL206/L and [BIOL207 or BIOL208] | Even Spring |
| BIOL458  Mammalogy | BIOL200/L and BIOL206/L and [BIOL207 or BIOL208] | Odd Spring |
| BIOL461  Entomology | BIOL200/L and BIOL206/L | Even Fall |
| BIOL463  Developmental Biology | BIOL200/L and BIOL206/L and BIOL309 and [BIOL222/L or BIOL343 or BIOL325] and CHEM131/L | Odd Spring |
| BIOL467  Herpetology | BIOL200/L and BIOL206/L and [BIOL207 or BIOL208] | Odd Spring |
| BIOL470  Advanced Physiology | [BIOL343 or BIOL325] and CHEM132/L and senior status  (CHEM332/L and [BIOL207 or BIOL208] recommended) | Fall |
| BIOL473  Ecological Field Methods Laboratory | BIOL200/L and BIOL206/L | Even Fall |
| BIOL474  Molec. Techn. in Ecology, Evolution, and Conserv. | BIOL200/L and BIOL206/L and BIOL309 and CHEM131/L | Even Fall |
| BIOL475  Genetics Laboratory | BIOL200/L and BIOL206/L and BIOL309 | Fall, Spring |
| BIOL481  Directed Readings in Biology | 10 credits in biology; consent of department | Fall, Spring |
| BIOL483  Workshop in Biology | Consent of department  THIS IS A SPECIAL TOPICS COURSE AND REQUIREMENTS MAY VARY | Occasionally |
| BIOL484  Seminar in Ecology, Evolution and Behavior | 12 credit hours in biology, including BIOL200/L and BIOL206/L or instructor consent | Spring |
| BIOL485  Seminar in Applied Biotechnology | BIOL309 and [BIOL325 or BIOL318 or BIOL408 or BIOL409] and 8 additional BIOL units | Fall |
| BIOL490  Independent Research | Consent of instructor | Fall, Spring,  Summer, Winter |
| BIOL491  Elective Independent Research | Consent of instructor | Fall, Spring,  Summer, Winter |
| BIOL493  Internship in Biology | Junior or Senior standing or consent of internship coordinator | Fall, Spring,  Summer, Winter |
| BIOL499  Senior Thesis in Biology | BIOL491 and consent of instructor | Fall, Spring,  Summer, Winter |
| GEOL221  Intro to Geospatial Technology | GEOG101 or consent of instructor (which BIOL majors should request) | Fall, Spring |
| CHEM220/L  Analytical Chemistry | CHEM132/132L | Fall, Spring |
| CHEM351  Biochemistry | CHEM330 or CHEM332 | Fall, Spring,  Summer |
| CHEM356  Biochemistry Lab | CHEM351 (can be taken concurrently) | Spring |
| MBBB201  Programming for Biologists | Declared MBBB major or consent | Fall, Spring |
| MBBB301  Intro to Bioinformatics | BIOL309 or CHEM351 | Fall, Spring,  Summer |
| MBBB315  Genomics | BIOL309 | Occasionally |
| MBBB401  Advanced Bioinformatics | MBBB301 and COSC237 | Even Spring |

In catalogue, not currently offered (NCO):

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| Course | Offered | Prerequisites listed |
| 494 Travel Study | Fall, Spring, Summer, Winter | BIOL117 or BIOL120/L or BIOL191/L or BIOL200/L or equivalent; consent of instructor |
| 486 Biology Majors Seminar | NCO | BIOL200/L and 206/L and [BIOL205 or BIOL207 or BIOL208]; Junior/Senior standing. |
| 472 Organismal Form and Function | Even Fall | BIOL200/L and 206/L |
| 471 Advanced Physiology Laboratory | Spring | BIOL470 (may be taken concurrently) |
| 469 Comparative Animal Physiology | NCO | [BIOL207 or BIOL208] and [BIOL222/L or BIOL325] and CHEM132/L |
| 465 Mammal Physiology | NCO | [BIOL222/L or BIOL325] and CHEM132/L. CHEM332 and CHEM351 recommended. |
| 450 Ecological Chemistry | NCO | [BIOL200/L or BIOL206/L] and [CHEM330 or CHEM331]. |
| 431 Horticulture | NCO | BIOL205 or BIOL208 |
| 372 Animal Behavior Lab | NCO | BIOL371 (may be taken concurrently) |
| 327 Dangerous Diseases | NCO | BIOL222/L or BIOL191/L or BIOL200/L Not for major credit |
| 323 Genes, Evolution & Morality | NCO | BIOL191/L or 200/L Not for major credit |
| 322 Biotechnology and Society | NCO | BIOL191/L or BIOL200/L Not for major credit |
| 321 Biology of Women | NCO | Not for major credit |
| 317 Microtechnique | NCO | BIOL120/L and CHEM132/L (may be taken concurrently). |
| 313 Biology of Aging | NCO | BIOL103 or [BIOL221/L & BIOL222/L] Not for major credit |
| 305 Electron Microscopy | NCO | 12 credits of biology and PHYS211 and consent of instructor; PHYS212 recommended |
| 105 Environmental Biology | Spring | Not for major credit |
| 103 Human Biology | NCO | Not for major credit |
| 100 Humanistic Botany | NCO | Not for major credit |
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