Biology Minor

Program requirements

The Biology minor requires 17 credits in addition to BIOL 198; at least 11 of the 17 credits must be from BIOL courses (List 1). No more than 3 credit hours of research credits (List 2) may count toward the minor, and no more than 3 credit hours of courses from List 3 may count toward the minor. Note that this means that only 3 credit hours of List 3 courses that are 4 credits hours or above will be counted.

Required Courses (4 credit hours)

BIOL 198 Principles of Biology	4

Biology Courses (at least 11 credit hours)

Any BIOL course (other than BIOL 198, BIOL 695 or BIOL 698). Biology course listing can be found in the University Course Catalog.

Research Courses (up to 3 credit hours)

AGRON 598 Undergraduate Research in Agronomy	0-18
AP 790 Problems in Anatomy and Physiology	1-18
ASI 561 Undergraduate Research in Animal Sciences & Industry	0-3
BAE 497 Undergraduate Research Experience	0-3
BAE 499 Honors Research in Biological Systems Engineering	1-18
BIOCH 599 Research Training in Biochemistry	1-3
BIOL 695 Internship in Biology	1-3
BIOL 698 Research in Biology	0-8
CHE 497 Undergraduate Research Experience	0-3
CHM 497 Research in Undergraduate Chemistry	1-3
DAS 400 Undergraduate Research in Arts and Sciences	0-3
DAS 506 Undergraduate Cancer Research	1
DMP 680 Problems in Pathobiology	1-5
ENTOM 482 Research Experience in Entomology	1-3
GEOG 497 Undergraduate Research in Geography	1-3
KIN 597 Research Experience in Kinesiology	0-3
PLPTH 495 Undergraduate Research in Plant Pathology	0-3
PSYCH 599 Research in Psychology	0-18
WOEM 495 Undergraduate Research in Wildlife and Outdoor Enterprise Management	0-3

Additional courses (except research courses) (up to 3 credit hours). Research Courses do not count toward the 3 credit hour limit.

AGCOM 712 Environmental Communication	3
AGEC 525 Natural Resource and Environmental Economics	3
AGRON 205 Soils	3
AGRON 251 Range Management	3
AGRON 335 Environmental Quality	3
AGRON 610 Biotechnology	3
AGRON 620 Applied Crop Physiology	3
AGRON 630 Crop Improvement and Biotechnology	3
AGRON 645 Soil Microbiology	3
AGRON 646 Soil Microbiology Laboratory	1
AGRON 660 Grassland Monitoring and Assessment	2
AGRON 661 Grassland Monitoring and Assessment Lab	1
AGRON 680 Plant Genetics	3
AGRON 681 Range Ecology	3
AGRON 682 Grassland Fire Ecology	3
AGRON 695 Climate Change and Agriculture	3
AGRON 781 Ecology of Invasive Species	3
AP 600 Introduction to Pharmacology for Health Professionals	3
AP 711 Stem Cells and Comparative Biomedicine	2
ASI 218 Fundamentals of Nutrition	3
ASI 533 Anatomy and Physiology	4
ASI 540 Principles of Animal Disease Control	3
ASI 560 Course-Based Undergraduate Research in Animal Sciences & Industry	2
ASI 658 Animal Growth and Development	3
BAE 445 Biological Engineering Fundamentals	3
BIOCH 521 General Biochemistry	3
BIOCH 522 General Biochemistry Laboratory	3
BIOCH 571 Medical Biochemistry	3
BIOCH 755 Biochemistry I	3
BIOCH 756 Biochemistry I Laboratory	2
BIOCH 757 NMR Laboratory	1
BIOCH 758 Protein Structure Laboratory	1
BIOCH 765 Biochemistry II	3
BIOCH 766 Recombinant DNA Laboratory I	1
BIOCH 767 Recombinant DNA Laboratory II	1
BIOCH 775 Molecular Biophysics	3
CHM 315 Environmental Science: A Chemistry Perspective	3
DMP 690 Essential Practices for BSL-3 Research Settings	1
DMP 691 Introduction to High Containment Laboratory Topics and Techniques	3
DMP 710 Introduction to One Health	2
DMP 754 Introduction to Epidemiology	3
DMP 770 Emerging Diseases	3
ECON 527 Environmental Economics	3
ENTOM 312 General Entomology	3
ENTOM 625 Integrative Behavioral Ecology	3
ENTOM 630 Introduction to Molecular Entomology	3
ENTOM 635 Insect Evolution	3
ENTOM 649 Introduction to Arthropod Vectors of Human Pathogens	3
ENTOM 652 Introduction to Insect Molecular Techniques	2
ENTOM 660 Introduction to Insect Genetics	3
ENTOM 675 Introduction to Insect Physiology	3
ENTOM 692 Insect Ecology	3
ENTOM 695 Insect Taxonomy	3

FDSCI 600 Food Microbiology	2
FDSCI 601 Food Microbiology Lab	2
FNDH 400 Human Nutrition	3
FNDH 620 Nutrient Metabolism	3
FNDH 654 Pathophysiology and Clinical Evaluation	3
GEOG 445 Biogeography	3
GEOG 460 Human Dimensions of Global Change	3
GEOG 508 Geographic Information Systems I	4
GEOG 605 Remote Sensing of the Environment	3
GEOG 608 Geographic Information Systems II	3
GEOG 761 Human Impact on the Environment	3
GEOL 650 Geomicrobiology	3
KIN 601 Cardiorespiratory Physiology	3
KIN 603 Cardiovascular Physiology	3
KIN 607 Muscle Physiology	3
KIN 609 Environmental Physiology	3
KIN 611 Autonomic Neurophysiology	3
KIN 615 Cardiorespiratory/Comparative Physiology in Health and Disease	3
KIN 617 Signaling Pathways in Physiology	3
KIN 657 Integrative Human Pathophysiology	3
LAR 298 Ethics and Environmental Dilemmas	3
PHILO 595 Environmental Ethics	3
PLPTH 500 Principles of Plant Pathology	3
PLPTH 585 Crop Diseases	2
PLPTH 610 Biotechnology	3
PSYCH 470 Principles of Neuroscience	3
STAT 703 Introduction to Statistical Methods for the Sciences	3
WOEM 400 Pond and Sportfish Management	3
WOEM 555 Big Game Management	3
WOEM 560 Upland Game Bird Management	3
WOEM 561 Waterfowl and Wetlands Management	3
WOEM 562 Advanced Wildlife Habitat Management	4
WOEM 620 Human-Wildlife Conflicts	3

Total Hours Required: 21

No more than 6 hours of transfer course work can count toward the minor.