Biology, Minor

ASLSCMIN

Description

A minor in biology can be a valuable asset, particularly when paired with an appropriate major. For instance, a minor in biology paired with a major in political science provides a good background for someone who intends to practice environmental law.

At a Glance

- **College/School:** New College of Interdisciplinary Arts and Sciences
- **Location:** West campus

Program Requirements

Minor Map (Archives)
2022 - 2023 Minor Map

The minor in biology consists of 19 credit hours, of which 11 must be upper division. A minimum of eight upper-division credit hours must be completed through courses offered by the School of Mathematical and Natural Sciences. Coursework taken to fulfill the requirements of the minor may not be used to fulfill requirements of a student's major. Students should consult with an academic advisor prior to enrollment. All courses used to satisfy requirements for the minor must be passed with a "C" (2.00) or better.

**Core Requirements -- 8 credit hours**

- BIO 182: General Biology II (SG) (4)
- CHM 116: General Chemistry II (SQ) (4)

**Ecology, Cell Biology, or Genetics Requirement (select one combination) -- 4 credit hours**

BIO 353: Cell Biology AND BIO 354: Cell Biology Laboratory (4)

Upper-Division Electives -- 7 credit hours

BCH 371: Modern Concepts in Biochemistry (3)
BCH 372: Modern Concepts in Biochemistry Laboratory (1)
BIO 306: Modes of Biological Thought (L) (3)
BIO 320: Fundamentals of Ecology (3)
BIO 340: General Genetics (4)
BIO 345: Evolution (3)
BIO 353: Cell Biology (3)
BIO 354: Cell Biology Laboratory (1)
BIO 360: Animal Physiology (3)
BIO 370: Vertebrate Zoology (4)
BIO 385: Comparative Invertebrate Zoology (4)
BIO 410: Techniques in Conservation Biology and Ecology (L) (3)
BIO 422: Ecosystem Ecology (3)
BIO 423: Population and Community Ecology (3)
BIO 426: Limnology (L) (3)
BIO 431: Genes, Development, and Evolution (L) (3)
BIO 443: Applied Molecular Genetics and Genomics (3)
BIO 471: Ornithology (3)
BIO 474: Herpetology (4)
ENV 300 / PLB 300: Plant Diversity and Evolution (L or SG) (4)
ENV 302 / PLB 302: Plants and Civilization (L) (3)
ENV 345: Spatial Analysis in the Environmental Sciences (3)
ENV 388 / FOR 388 / LSC 388 / PLB 388 / PTX 388: STEM Research Fundamentals (L) (3)
ENV 394 / LSC 394: Animal Behavior in a Changing Environment (3)
ENV 410: Soil Science (4)
ENV 485: Environmental Impact Assessment (3)
FOR 370: Fundamentals of Forensic Analysis (4)
FOR 377: Forensic Analytical Chemistry Laboratory (2)
FOR 380 / LSC 380: Analysis of Nonhuman Forensic DNA Evidence (3)
FOR 400: Comparative Forensics (3)
FOR 401 / PTX 401: Forensic Toxicology (3)
FOR 402: Forensic Biology (3)
FOR 425 / LSC 425: Analytical Chemistry for Life Sciences (3)
FOR 426 / LSC 426: Analytical Chemistry for Life Sciences Lab (2)
FOR 447 / LSC 447: Molecular Genetics Laboratory (1)
FOR 475 / LSC 475 / PTX 475: Principles of Toxicology (3)
FOR 480 / LSC 480: Advanced Topics in Human Forensic DNA Typing (3)
LSC 322: Fundamentals of Ecology Laboratory (1)
LSC 347: Fundamentals of Genetics (3)
LSC 348: Fundamentals of Genetics Laboratory (1)
LSC 359: Animal Physiology Laboratory (1)
LSC 362: The Human Environment (3)
LSC 363: Genes, Race, Gender, and Society (L) (3)
LSC 430: Environmental and Human Toxicology (4)
LSC 432 / PTX 432: Fundamentals of Pharmacology (3)
LSC 434: Marine Ecology (3)
MIC 443: The Microbial Universe (3)
MIC 444: The Microbial Universe Laboratory (1)
PLB 308: Plant Physiology (4)
PLB 310: The Flora of Arizona (4)
PTX 301: Basics of Pharmacology and Toxicology (3)
PTX 450: Pharmacology and Toxicology Laboratory (1)

Prerequisite courses may be needed in order to complete the requirements of this minor.

Enrollment Requirements

GPA Requirement: None

Incompatible Majors: BA and BS in biology; BA and BS in environmental science; BS in biology (environmental science); BS in biology (pharmacology/toxicology); BS in biotechnology and bioenterprise; BS in forensic science; BS in pharmacology and toxicology

Other Enrollment Requirements: None

Current ASU undergraduate students may pursue a minor and have it recognized on their ASU transcript at graduation. Minor requirements appear on the degree audit once the minor is added. Certain major and minor combinations may be deemed inappropriate by the college or department of either the major program or the minor. Courses taken for the minor may not count toward both the major and minor.

Career Opportunities

Graduates who have included this minor with their major have a wide variety of options. They prepared to pursue graduate studies or to seek careers in diverse areas, like environmental management and conservation, health professions, laboratory research, primary and secondary school teaching, science advisement to businesses and government, and science writing.

Contact Information

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