

Biology Minor

Program Requirements

- **Total units required:** 32 (18 units of biology and 14 units of chemistry)

Required Courses

| Code | Title | Units |
|--------------------|------------------------------------|-----------|
| Biol 2960 | Principles of Biology I | 4 |
| Biol 2970 | Principles of Biology II | 4 |
| Chem 111A | General Chemistry I | 3 |
| or Chem 105 | Principles of General Chemistry I | |
| Chem 112A | General Chemistry II | 3 |
| or Chem 106 | Principles of General Chemistry II | |
| Chem 151 | General Chemistry Laboratory I | 2 |
| Chem 152 | General Chemistry Laboratory II | 2 |
| Chem 261 | Organic Chemistry I with Lab | 4 |
| Total Units | | 22 |

Elective Courses

The minor requires 10 advanced units in biology selected from the following:

| Code | Title | Units |
|-----------|-------------------------------------------------|-------|
| Biol 3010 | Biotechnology Project | 3 |
| Biol 3057 | Physiological Control Systems | 3 |
| Biol 3100 | R Workshop in Biology | 1 |
| Biol 3110 | Vertebrate Structure Laboratory | 4 |
| Biol 3151 | Endocrinology | 3 |
| Biol 3220 | Woody Plants of Missouri | 3 |
| Biol 3221 | Research and Public Education in the Arboretum | 3 |
| Biol 324 | Human Genetics | 3 |
| Biol 328 | Principles in Human Physiology | 4 |
| Biol 334 | Cell Biology | 3 |
| Biol 3411 | Principles of the Nervous System | 3 |
| Biol 3421 | Introduction to Neuroethology | 3 |
| Biol 3422 | Genes, Brains, and Behavior | 3 |
| Biol 3423 | Behavioral Genetics Laboratory | 3 |
| Biol 347 | Darwin and Evolutionary Controversies | 3 |
| Biol 3481 | Parasitology | 3 |
| Biol 349 | Microbiology | 4 |
| Biol 3491 | Microbiology Laboratory | 3 |
| Biol 3492 | Laboratory Experiments with Eukaryotic Microbes | 3 |
| Biol 3493 | Bacterial Bioprospecting and Biotechnology | 3 |

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| Biol 3494 | Microbes and the Environment | 4 |
| Biol 3501 | Evolution | 4 |
| Biol 354 | Physics of Living Systems | 3 |
| Biol 360 | Biophysics Laboratory | 3 |
| Biol 370 | Animal Behavior | 3 |
| Biol 381 | Introduction to Ecology | 3 |
| Biol 4023 | How Plants Work: Physiology, Growth, and Metabolism | 3 |
| Biol 4030 | Biological Clocks | 3 |
| Biol 404 | Laboratory of Neurophysiology | 4 |
| Biol 4071 | Developmental Biology | 3 |
| Biol 4072 | Regenerative and Stem Cell Biology | 3 |
| Biol 4181 | Population Genetics | 3 |
| Biol 4182 | Macroevolution | 3 |
| Biol 4183 | Molecular Evolution | 3 |
| Biol 419 | Community Ecology | 3 |
| Biol 4193 | Experimental Ecology Laboratory | 4 |
| Biol 4195 | Disease Ecology | 4 |
| Biol 4220 | Practical Bioinformatics | 4 |
| Biol 424 | Immunology | 4 |
| Biol 4242 | Virology | 3 |
| Biol 4270 | Problem Based Learning in Biomedical Sciences | 3 |
| Biol 4271 | The Science of Cats | 3 |
| Biol 4310 | Biology of Aging | 3 |
| Biol 4342 | Research Explorations in Genomics | 4 |
| Biol 434W | Research Explorations in Genomics (Writing-Intensive) | 4 |
| Biol 4344 | Epigenetics | 3 |
| Biol 4381 | Cell-Based Tissue Engineering and Regenerative Medicine | 3 |
| Biol 4492 | Infectious Diseases: History, Pathology, and Prevention | 3 |
| Biol 451 | General Biochemistry | 4 |
| Biol 4522 | Laboratory in Protein Analysis, Proteomics, and Protein Structure | 3 |
| Biol 4523 | Molecular Methods in Enzyme Analysis | 4 |
| Biol 4525 | Structural Bioinformatics of Proteins (Writing Intensive) | 4 |
| Biol 4540 | Physics of Living Systems | 3 |
| Biol 4580 | Principles of Human Anatomy and Development | 3 |
| Biol 4715 | Basic Cancer Biology | 3 |
| Biol 4716 | Advanced Cancer Biology | 3 |
| Biol 472 | Behavioral Ecology | 4 |
| Biol 4810 | General Biochemistry I | 3 |
| Biol 4820 | General Biochemistry II | 3 |
| Biol 4833 | Protein Biochemistry | 3 |

Additional Information

All courses used for the biology minor must be taken for a letter grade. A grade of C- or better must be earned in all of these courses. A student may not receive credit for both Biol 370 and Biol 472 or for both Biol 4342 and Biol 434W.

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