

# Biology Minor

This checklist is based on the current Academic Catalog and is subject to change. Students should meet with their academic advisor each semester and use Degree Works to monitor their individual progress toward completion of the minor. Course credits are indicated in parentheses.

## Curriculum Checklist

### REQUIRED COURSES (11-12 credits)

- \_\_\_ BIOL 110: Principles of Biology 1 (4)
- \_\_\_ BIOL 111: Principles of Biology 2 (4)

1 of the following:

- \_\_\_ BIOL 208: Human Genetics (3)
- \_\_\_ BIOL 209: Genetics (3)
- \_\_\_ BIOL 211: Cell Biology (4)
- \_\_\_ BIOL 301: Ecology (Fall only) (4)

### ELECTIVES (7-10 credits)

At least 6 credits must be at the 300-level or above. Starred courses (\*) can be used as either Required Course OR Elective.

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|---|--|--|
| ___ BIOL 206: Botany (3)                | ___ BIOL 431 Mycology (3)              | ___ BIOL 455 Community Ecology (3)                   |
| ___ BIOL 207 Zoology (3)                | ___ BIOL 432 Ornithology (3)           | ___ BIOL 456 Environ. Toxicology (3)                 |
| ___ BIOL 208 Human Genetics* (3)        | ___ BIOL 433 Ichthyology (3)           | ___ BIOL 460 Plants, Animals, Nat.<br>His. of PA (3) |
| ___ BIOL 209 Genetics* (3)              | ___ BIOL 434 Herpetology (3)           | ___ BIOL 461 Animal Behavior (3)                     |
| ___ BIOL 210 Genetics Lab. (1)          | ___ BIOL 435 Cons. Genetics (3)        | ___ BIOL 462 Cancer Biology (3)                      |
| ___ BIOL 211 Cell Biology* (4)          | ___ BIOL 438 Environ. Policies (3)     | ___ BIOL 465 Medical Genomics (3)                    |
| ___ BIOL 213 Intro to Parasit. (3)      | ___ BIOL 439 Hum Dim in Fish. Mg. (3)  | ___ BIOL 466 Bioinformatics (3)                      |
| ___ BIOL 252 Watershed Ecol. Tech. (3)  | ___ BIOL 442 Advanced Virology (3)     | ___ BIOL 470 Tissue Culture (3)                      |
| ___ BIOL 301 Ecology* (4)               | ___ BIOL 440 Mg. of Sm. Impound. (3)   | ___ BIOL 473 Environ. Physiology (3)                 |
| ___ BIOL 314 Comp. Bio. of Inverts. (3) | ___ BIOL 441 Mg. of Lg Impound. (3)    | ___ BIOL 474 Human Physiology (3)                    |
| ___ BIOL 315 Comp. Vert. Anat. (3)      | ___ BIOL 443 Molecular Biology (3)     | ___ BIOL 475 Animal Cell Physiol. (3)                |
| ___ BIOL 316 Vertebrate Histology (3)   | ___ BIOL 444 Molecular Biology lab (1) | ___ BIOL 476 Neurophysiology (3)                     |
| ___ BIOL 337 Basic Virology (3)         | ___ BIOL 445 Pharmacology (3)          | ___ BIOL 477 Plant Physiology (3)                    |
| ___ BIOL 340 Microbiology (4)           | ___ BIOL 446 Immunology (3)            | ___ BIOL 479 Comp. Animal Physio. (3)                |
| ___ BIOL 345 Medical Microbiology (3)   | ___ BIOL 447 Immunology lab (1)        | ___ BIOL 480 Integrated Physio. Lab(1)               |
| ___ BIOL 350 Plant Pathology (3)        | ___ BIOL 448 Adv.Parasitology (3)      | ___ BIOL 485 Senior Seminar (1)                      |
| ___ BIOL 400 Dendrology (3)             | ___ BIOL 450 Developmental Bio. (3)    | ___ BIOL 486 Anal. & Comm. Biol.<br>Data (3)         |
| ___ BIOL 401 Entomology (3)             | ___ BIOL 451 Conservation Biology (3)  | ___ BIOL 489 Special Topics in Bio. (1)              |
| ___ BIOL 419 Ecosystems (3)             | ___ BIOL 452 Freshwater Ecology (3)    | ___ BIOL 493 Ind. Research (1-6)                     |
| ___ BIOL 420 Global Change Bio. (3)     | ___ BIOL 453 Freshwater Entom. (3)     | ___ BIOL 498 Internship in Biol. (1-6)               |
| ___ BIOL 430 Evolution (3)              | ___ BIOL 454 Freshwater Algae (3)      |  |

**Total Credits Required for the Minor (18 Credits)**

## Campus Locations

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|-------------------|--|
| <b>Bloomsburg</b> | <input type="checkbox"/> Online; <input checked="" type="checkbox"/> In-person; <input type="checkbox"/> Blended |
| <b>Lock Haven</b> | <input type="checkbox"/> Online; <input checked="" type="checkbox"/> In-person; <input type="checkbox"/> Blended |
| <b>Mansfield</b>  | <input type="checkbox"/> Online; <input checked="" type="checkbox"/> In-person; <input type="checkbox"/> Blended |