BIOLOGY, MINOR (SCIENCE)

Requirements for a minor may be completed at any campus location offering the specified courses for the minor. Students may not change from a campus that offers their major to a campus that does not offer their major for the purpose of completing a minor.

Program Description
This minor is designed for students in non-Life Science majors, who desire to obtain an in-depth and well-rounded knowledge of Biology – the science of life and living organisms. This minor is not intended for “Life Science” oriented majors, including Biological Anthropology, Premedicine, and Science, Life Science option. After taking an introductory survey course which exposes students to the basics of Biology, including the chemistry of life, cell structure, genetics, mechanisms of evolution and evolutionary history of biological diversity, plant and animal form and function, and ecology, students select additional courses based on their biological emphasis to account for a total of 18-20 credits. In conjunction with the student’s major, the minor prepares students for entry to graduate school or professional school programs, as well as for technical or research careers with governmental agencies or industry. Majors complemented by this minor would include but not be limited to other life and physical sciences, engineering, and business.

What is Biology?
Biology is the scientific study of life: the diversity and organization of organisms, from single-celled bacteria to multi-cellular plants and animals, including humans. These different levels of biological organization range from the molecules and cells that compose an organism, to the interacting organisms that make up an ecosystem.

You Might Like this Program If...
• You want to complement your major by acquiring additional knowledge and skills in biology.
• You have an interest in learning more about biology, but do not have enough time to complete the major.

Program Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requirements for the Minor</td>
<td>18-20</td>
</tr>
</tbody>
</table>

Requirements for the Minor
A grade of C or better is required for all courses in the minor, as specified by Senate Policy 59-10 (http://senate.psu.edu/policies-and-rules-for-undergraduate-students/59-00-minors-and-certificates/#59-10).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 110</td>
<td>Biology: Basic Concepts and Biodiversity</td>
<td>4</td>
</tr>
</tbody>
</table>

Supporting Courses and Related Areas
Select 6-9 credits from 400-level Biology courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 220W</td>
<td>Biology: Populations and Communities</td>
</tr>
<tr>
<td>BIOL 230W</td>
<td>Biology: Molecules and Cells</td>
</tr>
<tr>
<td>BIOL 240W</td>
<td>Biology: Function and Development of Organisms</td>
</tr>
<tr>
<td>BIOL 322</td>
<td>Genetic Analysis</td>
</tr>
</tbody>
</table>

Academic Advising
The objectives of the university’s academic advising program are to help advisees identify and achieve their academic goals, to promote their intellectual discovery, and to encourage students to take advantage of both in-and out-of class educational opportunities in order that they become self-directed learners and decision makers.

Both advisers and advisees share responsibility for making the advising relationship succeed. By encouraging their advisees to become engaged in their education, to meet their educational goals, and to develop the habit of learning, advisers assume a significant educational role. The advisee’s unit of enrollment will provide each advisee with a primary academic adviser, the information need to plan the chosen program of study, and referrals to other specialized resources.

READ SENATE POLICY 32-00: ADVISING POLICY (http://senate.psu.edu/policies-and-rules-for-undergraduate-students/32-00-advising-policy)

University Park
Barbara DeHart
Director, Undergraduate Biology Advising
227 Ritenour Building
University Park, PA 16802
814-865-2329
psubioadvising@psu.edu

Abington
Eric Ingersoll
Program Chair
1600 Woodland Road
Abington, PA 19001
215-881-7492
epi1@psu.edu

Altoona
Laura Palmer
Associate Professor of Biology
Hawthorn Building 109
3000 Ivyside Park
Altoona, PA 16601
814-949-5205
lkp3@psu.edu

Berks
Maureen Dunbar
Program Coordinator, Associate Professor
Luerssen 101H
Reading, PA 19610
640-396-6328
med18@psu.edu

**Brandywine**

**Mick Yoder**  
Assistant Professor of Biology  
25 Yearsley Mill Road  
Media, PA 19063  
610-892-1462  
mdy103@psu.edu

**Scranton**

**Margret (Meg) Hatch**  
Associate Professor of Biology & Science Program Co-Coordinator, Penn State Scranton  
Dawson 211  
120 Ridge View Drive  
Dunmore, PA 18512  
570-963-2529  
mih10@psu.edu

**York**

**Anne Vardo-Zalik**  
Associate Professor of Biology  
1 Elias Science Building  
York, PA 17403  
717-718-6705  
amv12@psu.edu

**Contact**

**University Park**  
DEPARTMENT OF BIOLOGY  
228 Ritenour Building  
University Park, PA 16802  
814-865-2329

http://bio.psu.edu/undergraduate-portal

**Abington**

DIVISION OF SCIENCE AND ENGINEERING  
1600 Woodland Road  
Abington, PA 19001  
215-881-7300  
epi1@psu.edu

http://abington.psu.edu/biology

**Altoona**

DIVISION OF MATHEMATICS AND NATURAL SCIENCES  
Hawthorn Building 109  
3000 Ivyside Park  
Altoona, PA 16601  
814-949-5205  
lkp3@psu.edu

http://altoona.psu.edu/academics/bachelors-degrees/biology/request-information

**Berks**

DIVISION OF SCIENCE  
Luerssen Science Building  
Reading, PA 19610

610-396-6328  
med18@psu.edu

**Brandywine**

25 Yearsley Mill Road  
Media, PA 19063  
610-892-1459  
mdy103@psu.edu

http://brandywine.psu.edu/biology-minor

**Scranton**

Dawson 211  
120 Ridge View Drive  
Dunmore, PA 18512  
570-963-2529  
mih10@psu.edu

http://scranton.psu.edu/biology-minor

**York**

1 Elias Science Building  
York, PA 17403  
717-718-6705  
amv12@psu.edu

http://york.psu.edu/academics/baccalaureate/minors