ENVIRONMENTAL STUDIES, B.S.

Begin Campus: Any Penn State Campus
End Campus: Altoona

Degree Requirements
For the Bachelor of Science degree in Environmental Studies, a minimum of 121 credits is required:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education</td>
<td>45</td>
</tr>
<tr>
<td>Electives</td>
<td>12</td>
</tr>
<tr>
<td>Requirements for the Major</td>
<td>88-90</td>
</tr>
</tbody>
</table>

24 of the 45 credits for General Education are included in the Requirements for the Major. This includes: 3 credits of GH courses; 9 credits of GN courses; 6 credits of GQ courses; 6 credits of GS courses.

Requirements for the Major
To graduate, a student enrolled in the major must earn a grade of C or better in each course designated by the major as a C-required course, as specified by Senate Policy 82-44 (http://senate.psu.edu/policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-requirements/#82-44).

Code  Title                                           Credits
Prescribed Courses: Require a grade of C or better
BIOL 110  Biology: Basic Concepts and Biodiversity     4
BIOL 220W Biology: Populations and Communities        4
CHEM 20   Environmental Chemistry                      3
CHEM 21   Environmental Chemistry Laboratory          1
CHEM 110  Chemical Principles I                        3
CHEM 111  Experimental Chemistry I                     1
CHEM 202  Fundamentals of Organic Chemistry I          3
ECON 428  Environmental Economics                      3
ENGL 180  Literature and the Natural World             3
ENVS 100  Environmental Studies                        3
ENVS 200  Research Methods in Environmental Studies    3
ENVS 400W Senior Seminar in Environmental Studies       3
GEOG 115  Landforms of the World                        3
GEOG 160  Mapping Our Changing World                   3
GEOSC 1   Physical Geology                             3
HIST 453  American Environmental History               3
PHIL 403  Seminar in Environmental Ethics               3
PHYS 250  Introductory Physics I                        4
SOILS 101 Introductory Soil Science                     3

Additional Courses: Require a grade of C or better
ECON 102  Introductory Microeconomic Analysis and Policy 3
or ECON 104 Introductory Macroeconomic Analysis and Policy 4
MATH 110  Techniques of Calculus I                      4

Select one of the following:
BIOL 222  Genetics                                      3
BIOL 230W  Biology: Molecules and Cells                  3
BIOL 240W  Biology: Function and Development of Organisms 3
PLSC 135  Government and Politics of the American States 3
or PLSC 425  Government and Politics of the American States 3
STAT 200  Introduction to Biostatistics                  3
or STAT 250  Elementary Statistics                       4
Select one of the following:
ENVS 296  Independent Studies                            3
ENVS 496  Independent Studies                            3
ENVS 395  Internship & Internship Preparation            3
ENVS 570  Internship & Internship Preparation            3

Supporting Courses and Related Areas
Select 12 credits (at least 9 credits at the 400-level) from the three departmental lists, in consultation with an academic adviser:

<table>
<thead>
<tr>
<th>Domain</th>
<th>Credits</th>
</tr>
</thead>
</table>
| a. Natural Sciences |       6
| b. Social Sciences      |        3
| c. Arts and Humanities  |        3

General Education
Connecting career and curiosity, the General Education curriculum provides the opportunity for students to acquire transferable skills necessary to be successful in the future and to thrive while living in interconnected contexts. General Education aids students in developing intellectual curiosity, a strengthened ability to think, and a deeper sense of aesthetic appreciation. These are requirements for all baccalaureate students and are often partially incorporated into the requirements of a program. For additional information, see the General Education Requirements (https://bulletins.psu.edu/undergraduate/general-education/baccalaureate-degree-general-education-program/) section of the Bulletin and consult your academic adviser.

The keystone symbol appears next to the title of any course that is designated as a General Education course. Program requirements may also satisfy General Education requirements and vary for each program.

Foundations (grade of C or better is required.)
- Quantification (GQ): 6 credits
- Writing and Speaking (GWS): 9 credits

Knowledge Domains
- Arts (GA): 6 credits
- Health and Wellness (GHW): 3 credits
- Humanities (GH): 6 credits
- Social and Behavioral Sciences (GS): 6 credits
- Natural Sciences (GN): 9 credits

Integrative Studies (may also complete a Knowledge Domain requirement)
- Inter-Domain or Approved Linked Courses: 6 credits

University Degree Requirements
First Year Engagement
All students enrolled in a college or the Division of Undergraduate Studies at University Park, and the World Campus are required to take 1 to 3
credits of the First-Year Seminar, as specified by their college First-Year Engagement Plan.

Other Penn State colleges and campuses may require the First-Year Seminar; colleges and campuses that do not require a First-Year Seminar provide students with a first-year engagement experience.

First-year baccalaureate students entering Penn State should consult their academic adviser for these requirements.

**Cultures Requirement**
6 credits are required and may satisfy other requirements
- United States Cultures: 3 credits
- International Cultures: 3 credits

**Writing Across the Curriculum**
3 credits required from the college of graduation and likely prescribed as part of major requirements.

**Total Minimum Credits**
A minimum of 120 degree credits must be earned for a baccalaureate degree. The requirements for some programs may exceed 120 credits. Students should consult with their college or department adviser for information on specific credit requirements.

**Quality of Work**
Candidates must complete the degree requirements for their major and earn at least a 2.00 grade-point average for all courses completed within their degree program.

**Limitations on Source and Time for Credit Acquisition**
The college dean or campus chancellor and program faculty may require up to 24 credits of course work in the major to be taken at the location or in the college or program where the degree is earned. Credit used toward degree programs may need to be earned from a particular source or within time constraints (see Senate Policy 83-80 (http://senate.psu.edu/policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-requirements/#83-80)). For more information, check the Suggested Academic Plan for your intended program.