Environmental Science
Associate in Science Degree, Transfer Program
Division of STEM
Associate Dean: Bradley Cole
Department Chair: David Pindel

The Environmental Science A.S. degree is designed to enable students to transfer to most baccalaureate institutions with standing as a junior. The program outcomes prepare students for “green” employment in industries that are targeting global climate change, management of natural resources, and protection of the environment. While completion of this degree alone prepares students for work as environmental technicians, continuation through transfer institutions qualifies the graduate for work as environmental engineers, educators, environmental field biologists, and other environmental scientists in both the public and private sector.

Graduates will demonstrate:
• A thorough understanding of the theoretical principles, processes, and relationships underlying the environmental sciences;
• An ability to apply this knowledge to a wide variety of practical situations;
• An understanding of the social, economic, political, and ethical issues related to the environmental sciences, perform relevant laboratory experiments and interpret data gathered from such experiments;
• The ability to critically analyze and formulate possible solutions to environmental issues.

Inherent in Corning Community College’s mission is preparing students for a life of service to their professions and their communities in a globally interdependent society. The environmental analysis community is a key player in directing important public policy objectives related to quality of life issues, economic development, and environmental responsibility.

Program Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010 and 1020)*</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics (MATH 1310 or higher)*</td>
<td>6</td>
</tr>
<tr>
<td>Social Science electives</td>
<td>6</td>
</tr>
<tr>
<td>Laboratory Science (BIOL 1510-1520; CHEM 1510-1520)</td>
<td>16</td>
</tr>
<tr>
<td>Environmental Science (BIOL 1500)</td>
<td>4</td>
</tr>
<tr>
<td>Ecology (BIOL 2040)</td>
<td>4</td>
</tr>
<tr>
<td>Environmental Geology (GEOL 1530)</td>
<td>4</td>
</tr>
</tbody>
</table>

Environmental Ethics (PHIL 2200) 3
Program Electives **
Biol 2010, 2050, 2060, 2080, Geol 1510,
Phy 1730-1740, Chem 2010-2020
Wellness Activity or Awareness 1
Free electives 6
Total Hours 63

Program electives: Select courses from the following to total 10 credit hours: BIOL 2010, BIOL 2050, BIOL 2060, BIOL 2080, CHEM 2010, CHEM 2020, GEOL 1510, PHYS 1730, PHYS 1740. (Please note: all courses identified as program electives are not offered both fall and spring semesters.)

* Students in this program who plan to transfer to a SUNY college can meet 21 credits of the general education requirement.

** Program electives option to be determined by desired transfer school program requirements.

Sample Sequence: (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

First Semester
English (ENGL 1010) 3
General Chemistry I (CHEM 1510) 4
General Biology I (BIOL 1510) 4
Environmental Science (BIOL 1500) 4
Wellness (Activity or Awareness Component) 1

Second Semester
English (ENGL 1020) 3
General Chemistry II (CHEM 1520) 4
General Biology II (BIOL 1520) 4
Mathematics (MATH 1310 or higher) 3
Social Science elective 3

Third Semester
Social Science 3
Mathematics (MATH 1310 or higher) 3
Ecology (BIOL 2040) 4
Program electives 4

Fourth Semester
Environmental Ethics (PHIL 2200) 3
Environmental Geology (GEOL 1530) 4
Program electives 3
Free electives 6

Footnotes:
Program electives: Select courses from the following to total 10 credit hours: BIOL 2010, BIOL 2050, BIOL 2060, BIOL 2080, CHEM 2010, CHEM 2020, GEOL 1510, PHYS 1730, PHYS 1740. (Please note: all courses identified as program electives are not offered both fall and spring semesters.)
* Students in this program who plan to transfer to a SUNY college can meet 21 credits of the general education requirement.
* Based on placement, students might be required to take developmental and/or prerequisite classes before taking the required English and Math courses. Successful completion of some or all developmental courses may also be required before students can enroll in the science classes pertinent to this program.
** Program electives option to be determined by desired transfer school program requirements.